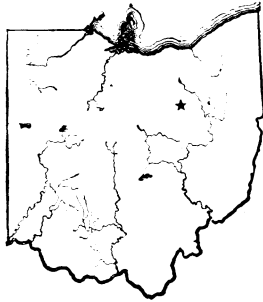


OHIO WEATHER FOR 1915

OHIO
Agricultural Experiment
Station

WOOSTER, OHIO, U. S. A., APRIL, 1916

BULLETIN 296



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BULLETIN

OF THE

Ohio Agricultural Experiment Station

NUMBER 296

APRIL, 1916

OHIO WEATHER FOR 1915

BY J. WARREN SMITH AND C. A. PATTON

EXPLANATORY

BY THE DIRECTOR

The extension of the work of the Experiment Station over the State, through the district and county experiment farms, makes it necessary that its weather records should be state-wide in their application. Hitherto the only attempt at such application has been to give the average rainfall and temperature for the entire State for comparison with the observations taken at the main station at Wooster, but it is now possible, through the cooperation of Prof. J. Warren Smith, Section Director for Ohio of the U. S. Weather Bureau, to supplement these records with a series of diagrammatic maps, showing at a glance the comparative weather conditions for the different sections of the State.

These maps will be followed by the usual summary tables.

Mean temperature, January, 1915

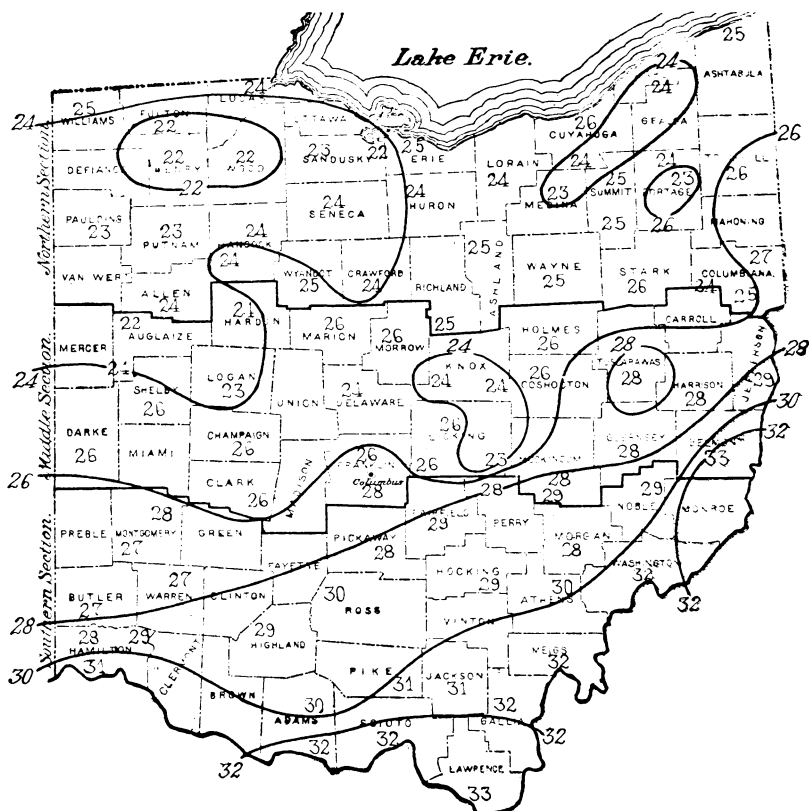


Figure 1. The mean temperature for the State as a whole was 26.3° . The highest local monthly mean was 33.4° at Ironton, and the lowest 21.5° at Bowling Green and Wauseon. The highest temperature reported during the month was 64° at Portsmouth on the 16th, and the lowest was -22° at Kenton, Ottawa and Paulding on the 24th.

Temperature departures, January, 1915

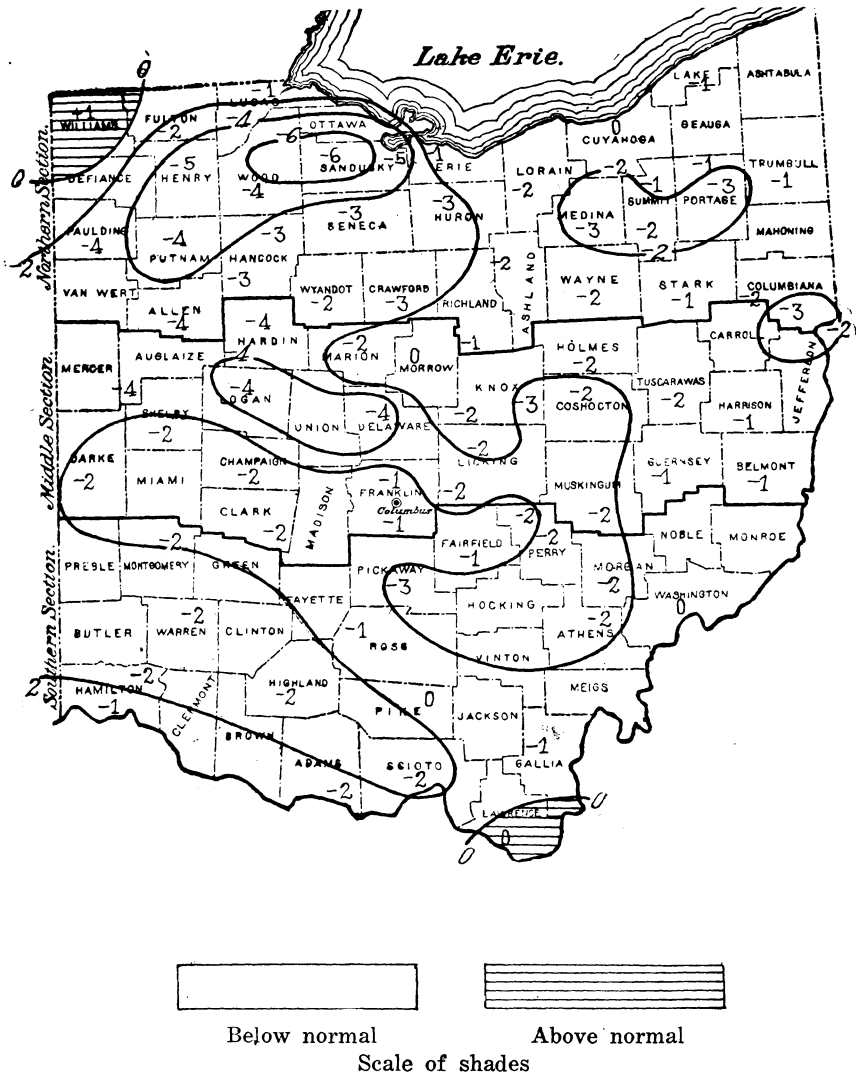


Figure 2. The mean temperature was 2.1° below the normal. The temperature was above normal continuously from the 4th to the 18th, and below from the 19th to the 30th. The coldest weather was experienced on the 24th, 26th and 30th.

Precipitation, January, 1915

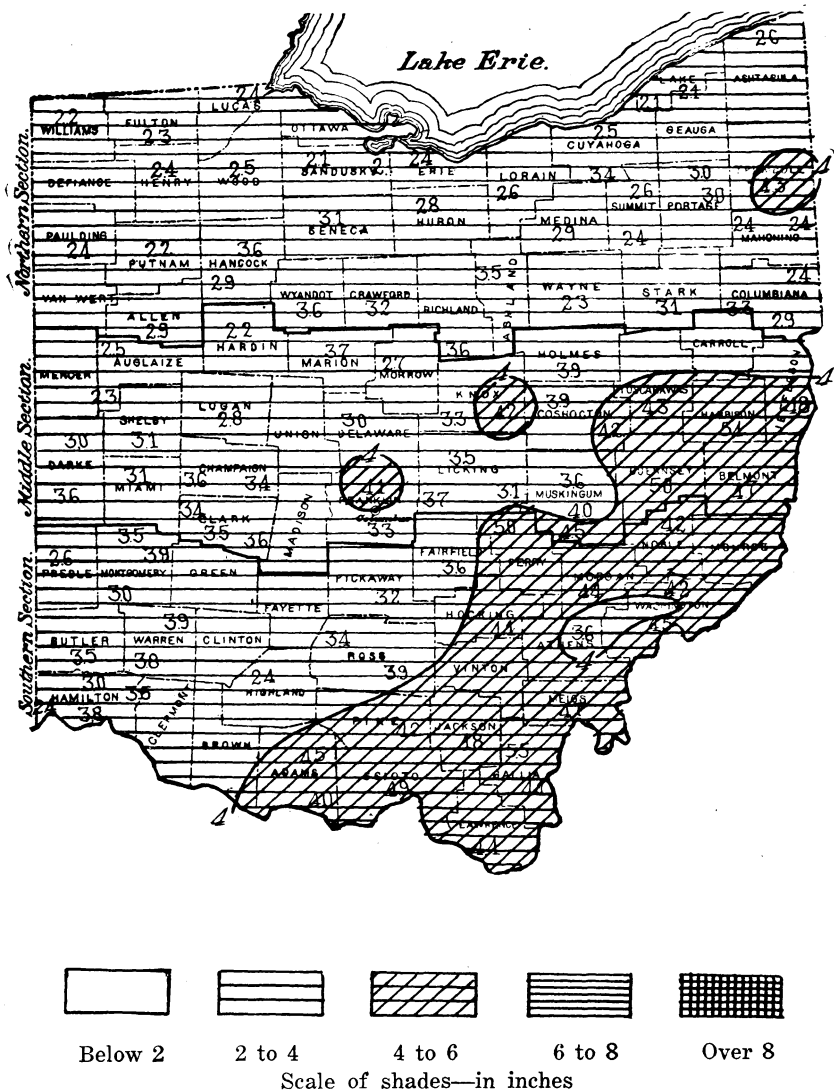
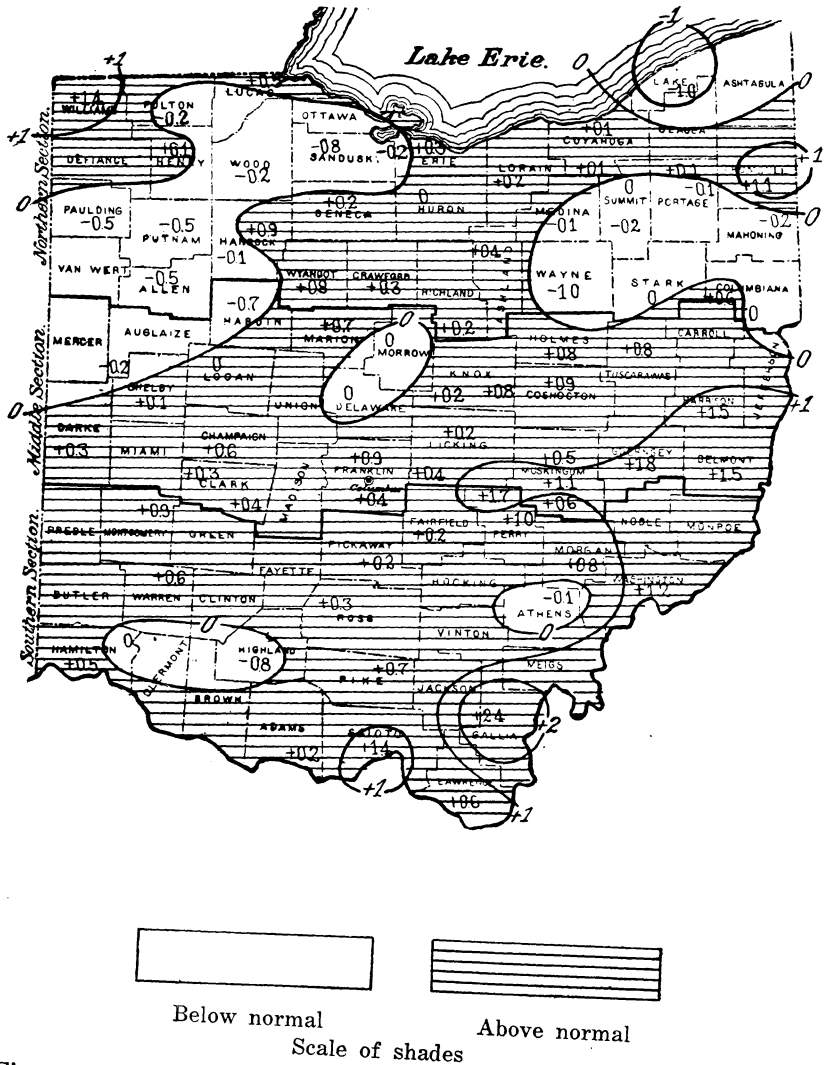


Figure 3. The average precipitation for the State was 3.40 inches. The largest monthly amount reported was 5.50 inches in Gallia County and the least 2.08 inches in Lake County. The most of the precipitation occurred during the last two weeks and a large proportion of it came in the form of snow.

Precipitation departures, January, 1915



Snowfall, January, 1915

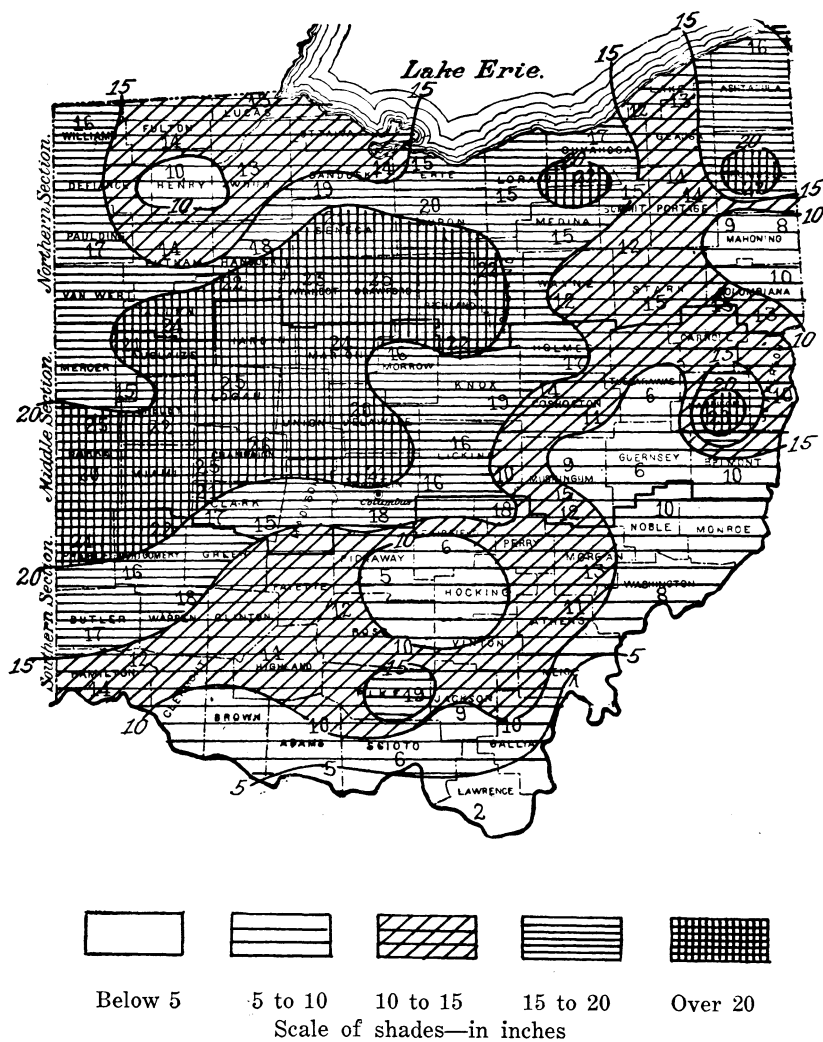


Figure 5. The average depth of the snowfall for the month was 14.8 inches. In some of the middle and western counties the total snowfall was over 20 inches, the greatest amount reported being 26.5 inches in Champaign County. The ground was well protected during the most of the month in the northern counties, and from the 18th to the close of the month in practically all parts of the State.

Mean temperature, February, 1915



Figure 6. The mean temperature for the State as a whole was 35.2°. The highest local monthly mean was 40.8° at Green and the lowest 31.2° at Kingsville. The highest temperature recorded during the month was 70° at Ironton on the 22nd and the lowest -9° at Garrettsville on the 9th. The coldest weather was experienced from the 7th to the 10th, and 26th to 28th, and the warmest from the 11th to the 14th and 19th to 23d.

Temperature departures, February, 1915

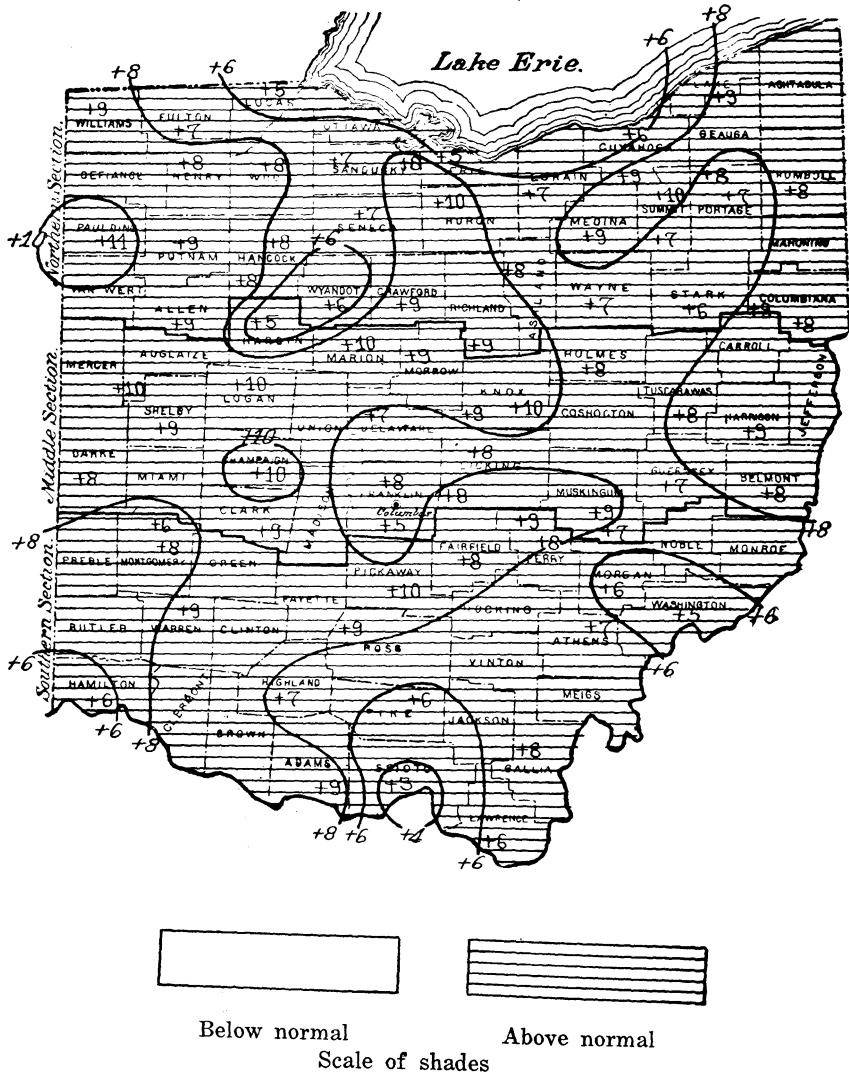


Figure 7. The mean temperature for the State was 7.8° above the normal. It was the warmest February since 1891. But while the month was much warmer than usual there were no exceptionally high temperatures.

Precipitation, February, 1915

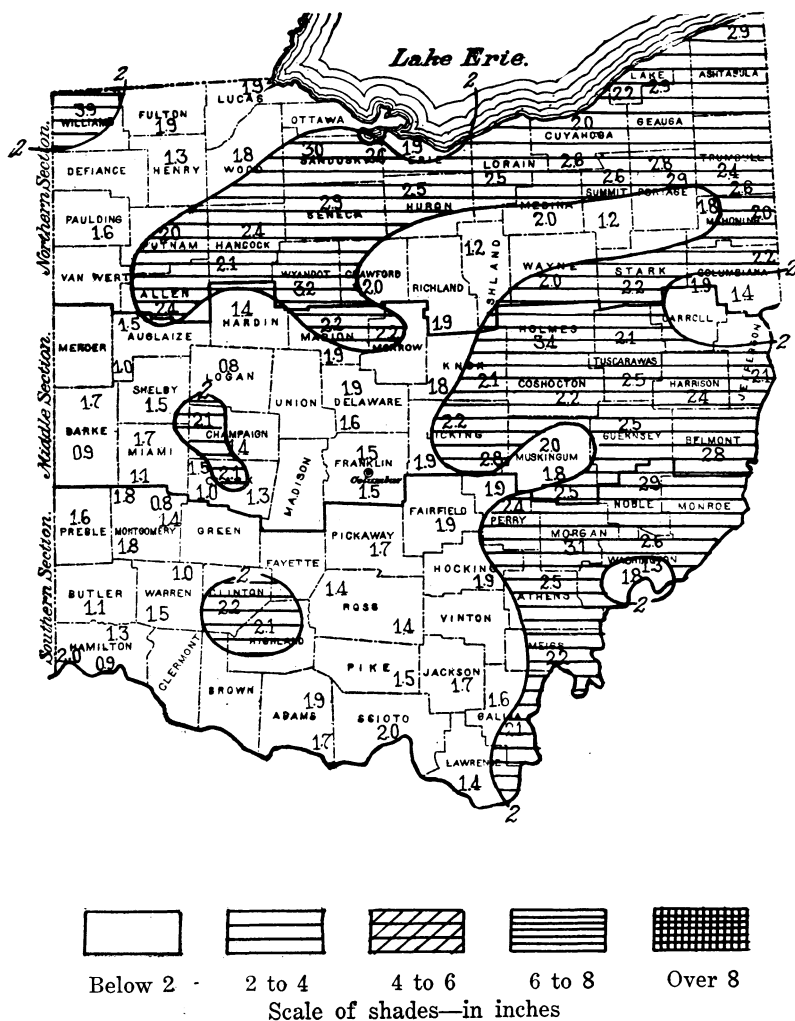


Figure 8. The average precipitation for the State was 1.96 inches. The greatest monthly amount reported was 3.90 inches in Williams County and the least, 0.77 inch in Logan County. Precipitation occurred practically every day during the first two weeks and again on the 23d, 24th and 25th, but with the exception of the first week the daily amounts were generally small.

Precipitation departures, February, 1915

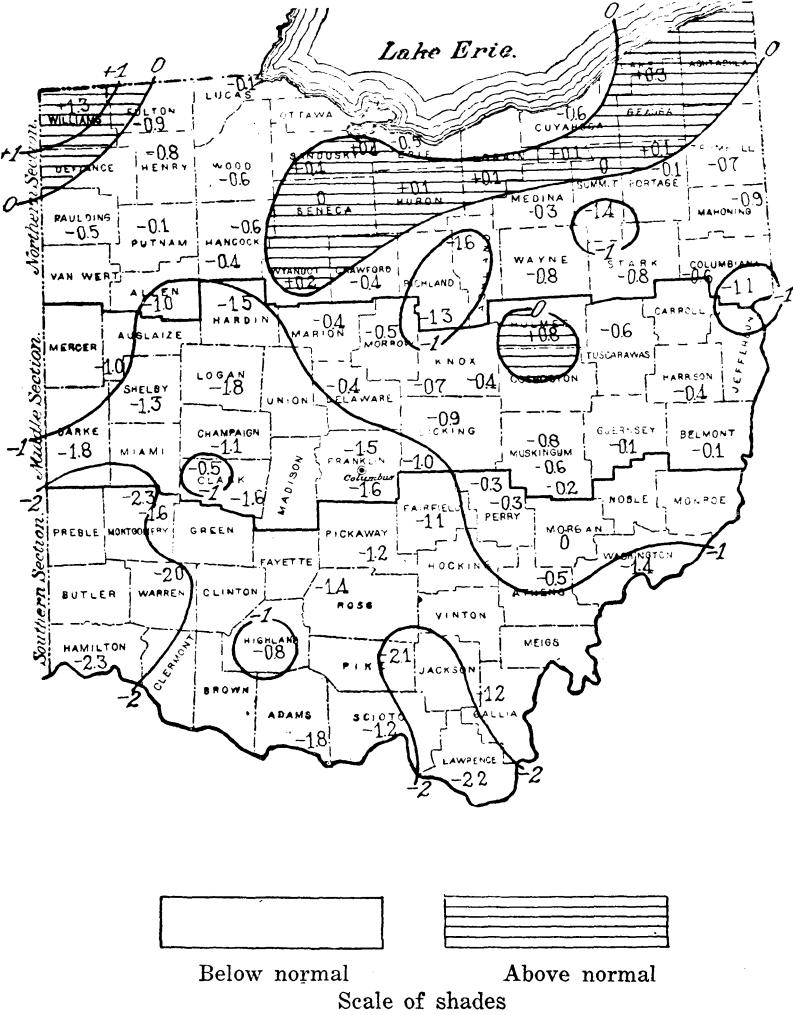


Figure 9. The precipitation averaged 0.73 inch below the normal. It was below normal except in a few northern counties, and in some of the western and extreme southern counties there was a deficiency of more than two inches.

Snowfall, February, 1915



Figure 10. The average snowfall for the State was 1.9 inches. The snowfall was much lighter than usual in all parts of the State. The greatest amount reported was 8.0 inches in Cuyahoga and Lake counties.

Temperature departures, March, 1915

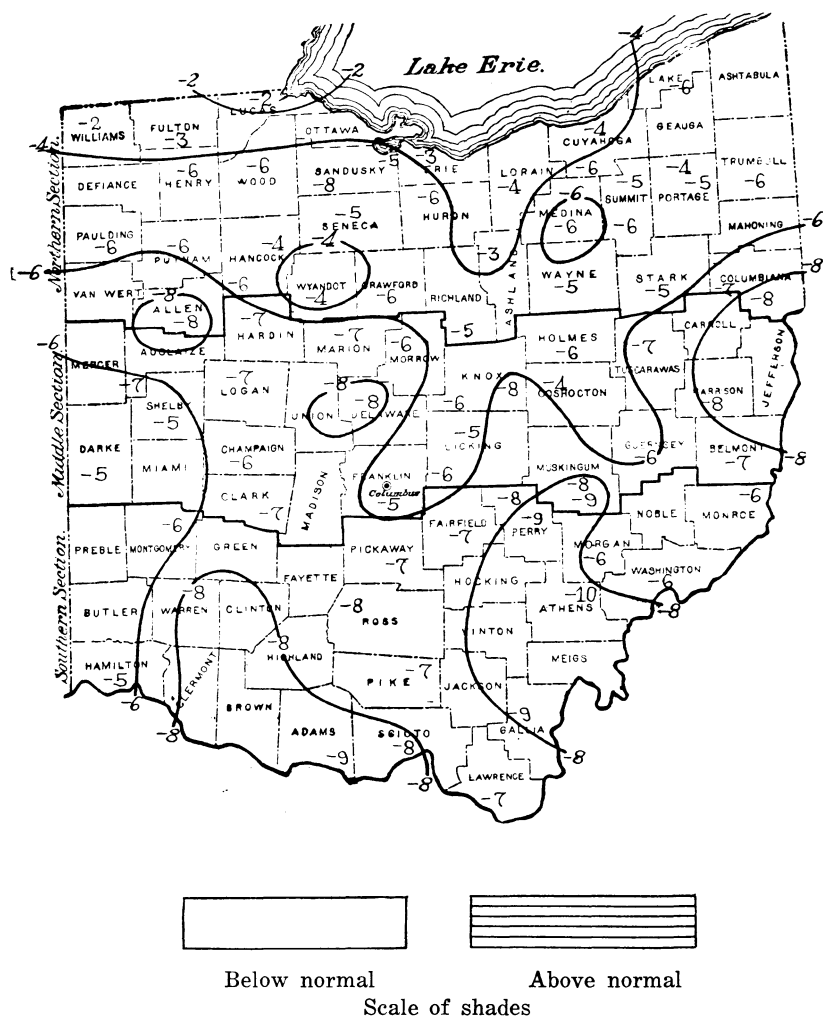


Figure 12. The mean temperature for the State was 6.1° below the normal. The temperature was below normal during almost the entire month and the coldest period came at the close, from the 26th to the 31st, inclusive, during which time the average daily deficiency was about 12 degrees.

Precipitation, March, 1915

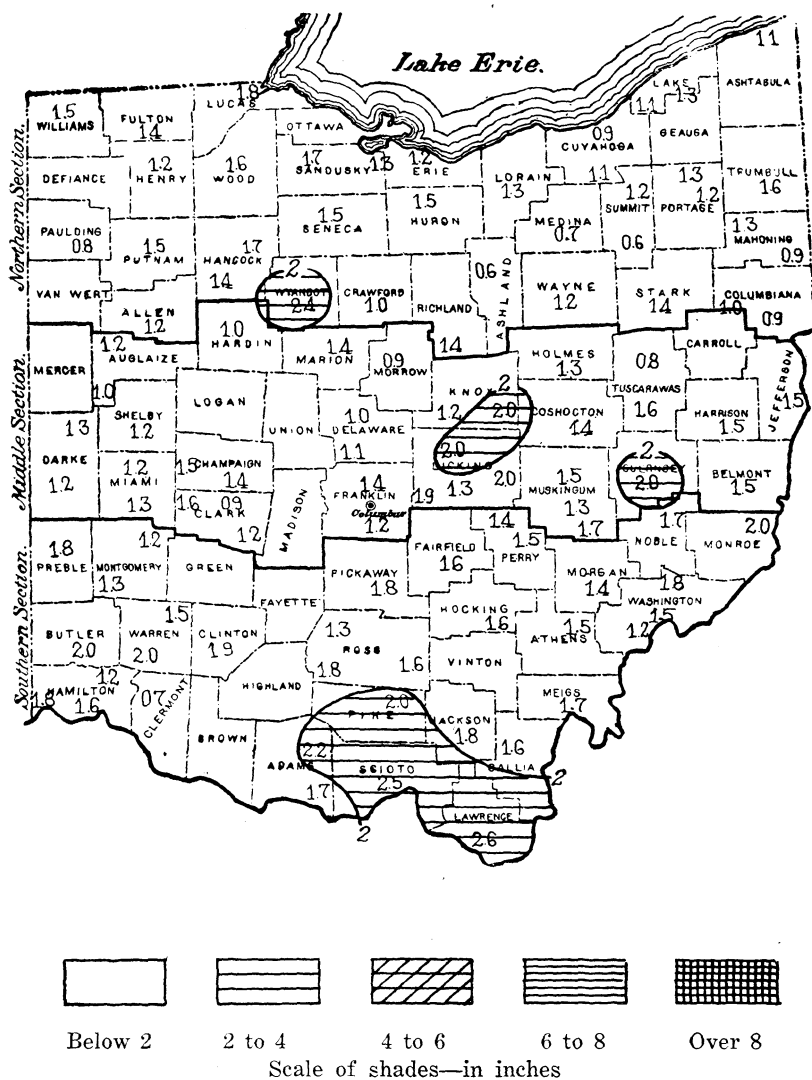


Figure 13. The average precipitation for the State was 1.44 inches. The greatest local monthly amount was 2.59 inches in Lawrence County and the least, 0.65 inch in Ashland and Summit counties. A large proportion of the precipitation occurred on the 5th, 6th and 7th, when moderately heavy rains fell in all parts of the State.

Precipitation departures, March, 1915

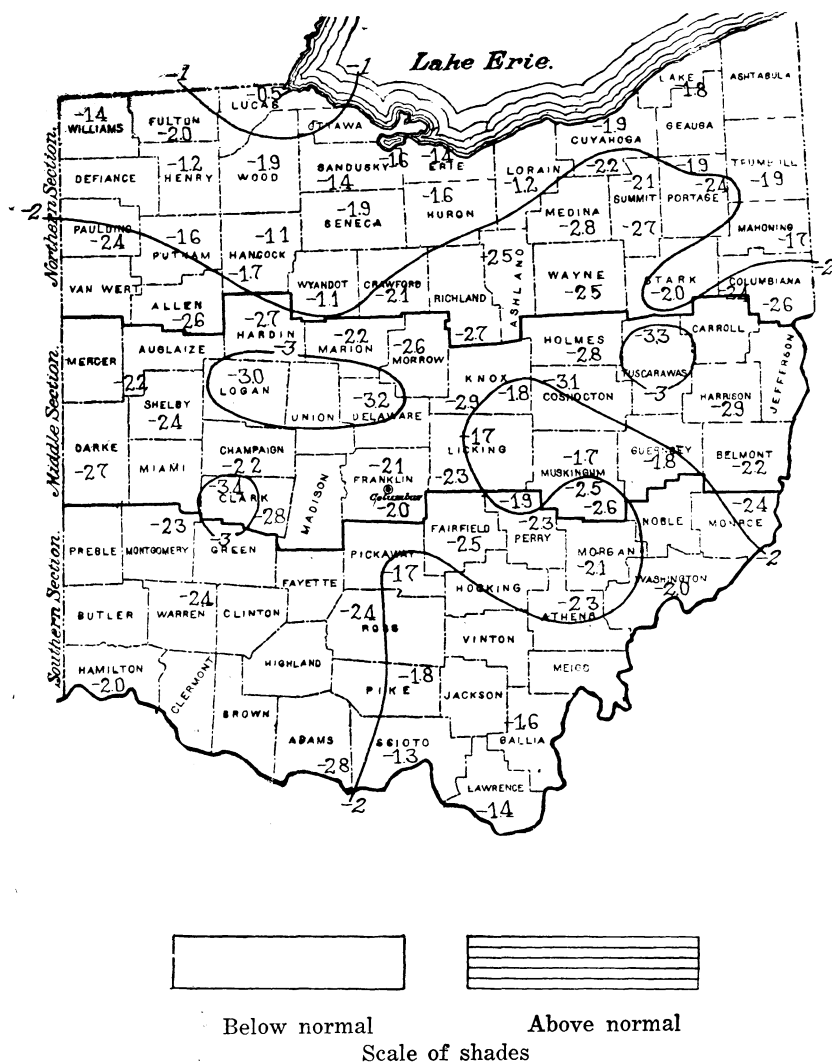


Figure 14. The precipitation averaged 2.12 inches below the normal. While it was below normal in all parts of the State the greatest deficiency occurred in the middle counties.

Mean temperature, April, 1915

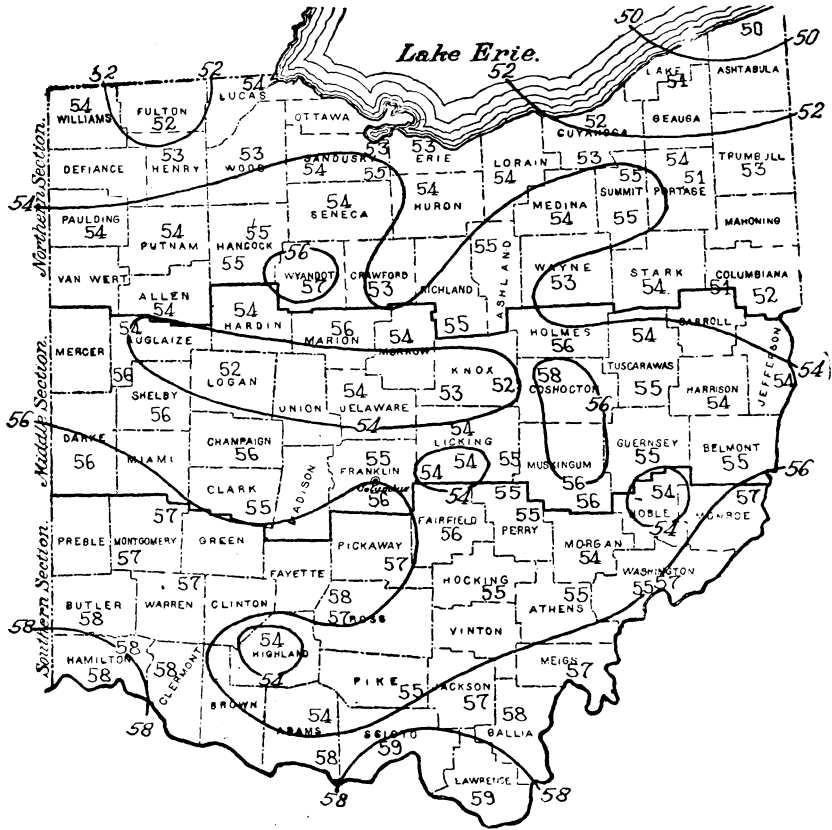


Figure 16. The mean temperature for the State as a whole was 54.8°. The highest local monthly mean was 59.2° at Ironton and the lowest 49.6° at Kingsville. The highest temperature reported during the month was 96° at Warren on the 24th, Green on the 25th, Portsmouth and Syracuse on the 26th, and the lowest was 12° at Peebles on the 1st. The month was marked by unusually large variations in temperature. The coldest weather occurred on the 1st and the warmest on the 25th and 26th.

Temperature departures, April, 1915

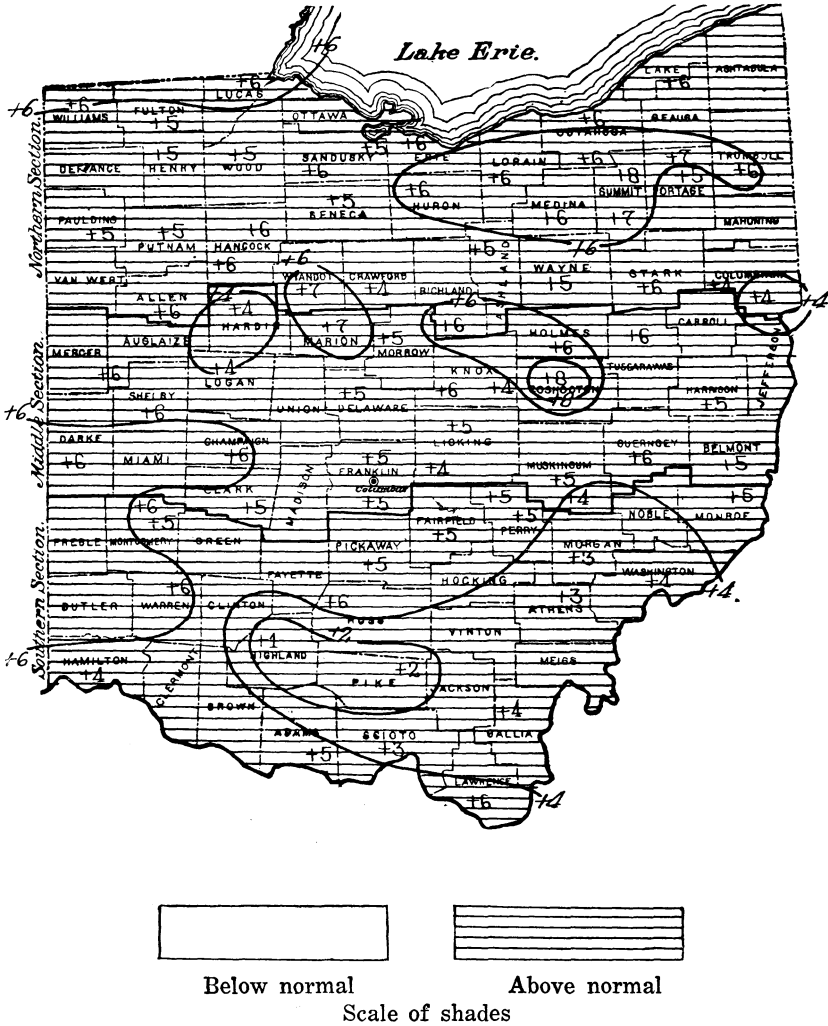


Figure 17. The mean temperature for the State was 5.2° above the normal. The first four days were cold with the night temperatures generally well below the freezing point, and another period of moderately cool weather lasted from the 12th to the 17th; but from the 5th to the 11th, and from the 18th to the 29th, inclusive, the temperature was much above normal. At a number of stations all previous high temperature records for April were broken during the last week.

Precipitation, April, 1915

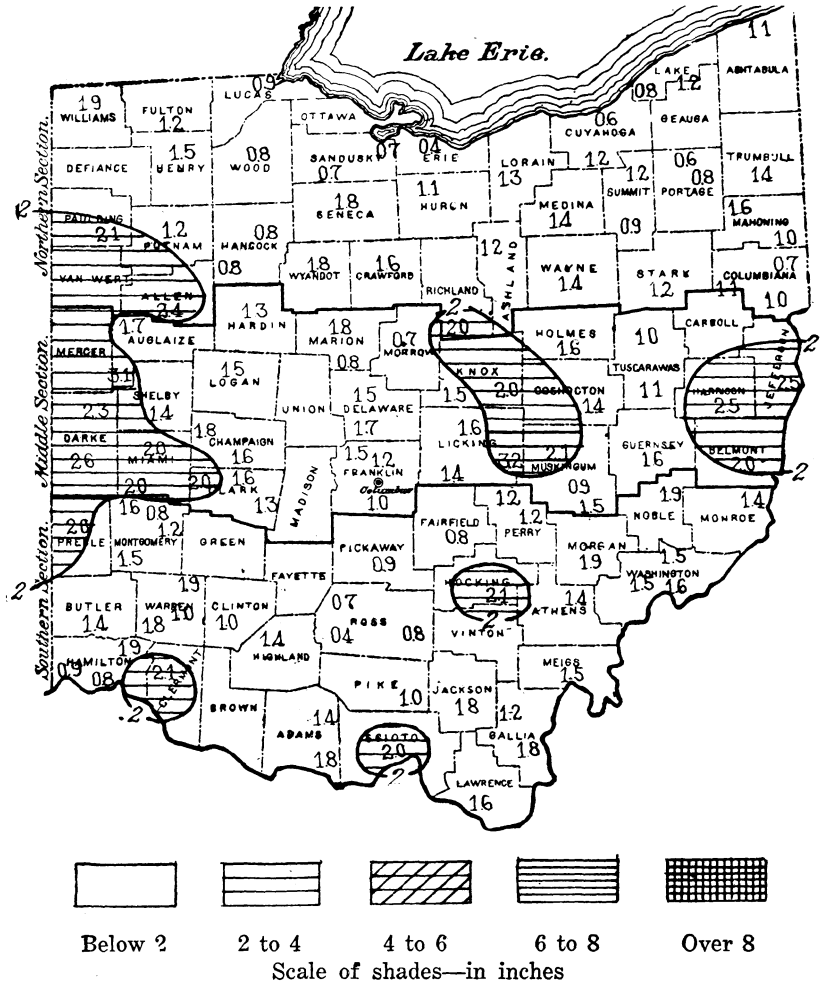


Figure 18. The precipitation averaged 1.42 inches. The greatest local monthly amount reported was 3.16 inches in Licking County and the least, 0.35 inch in Erie and Ross counties. This was one of the driest Aprils on record in this State, and with February and March made an unusually prolonged dry period.

Precipitation departures, April, 1915

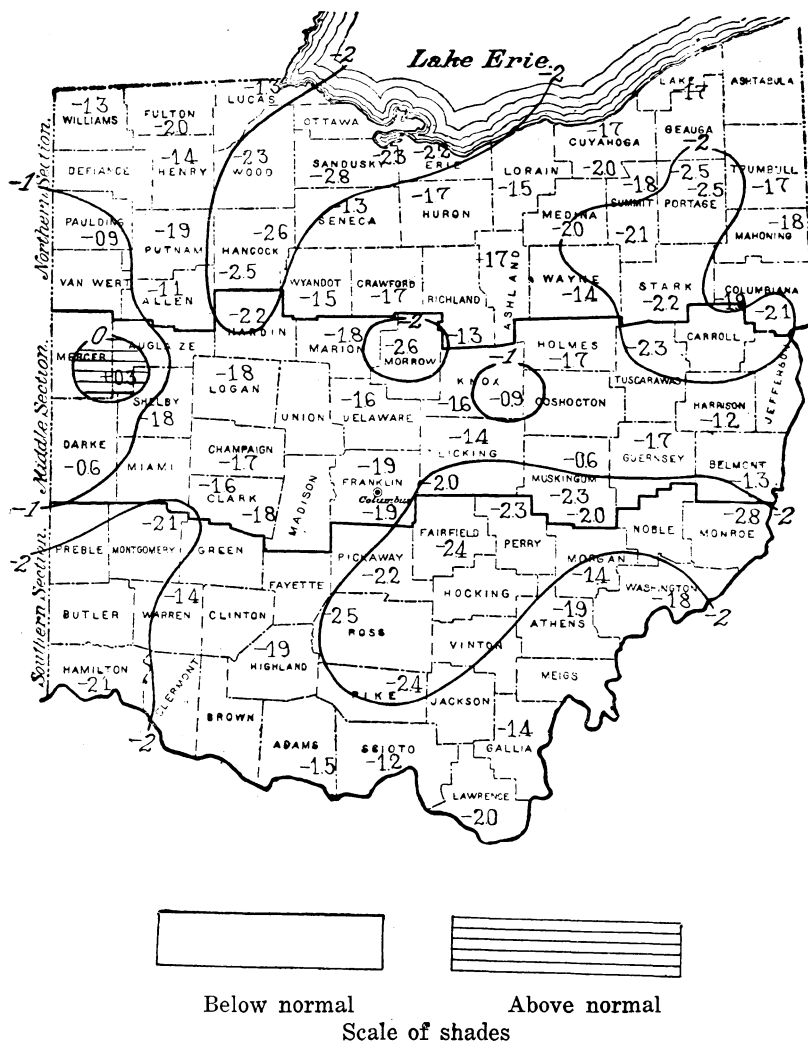


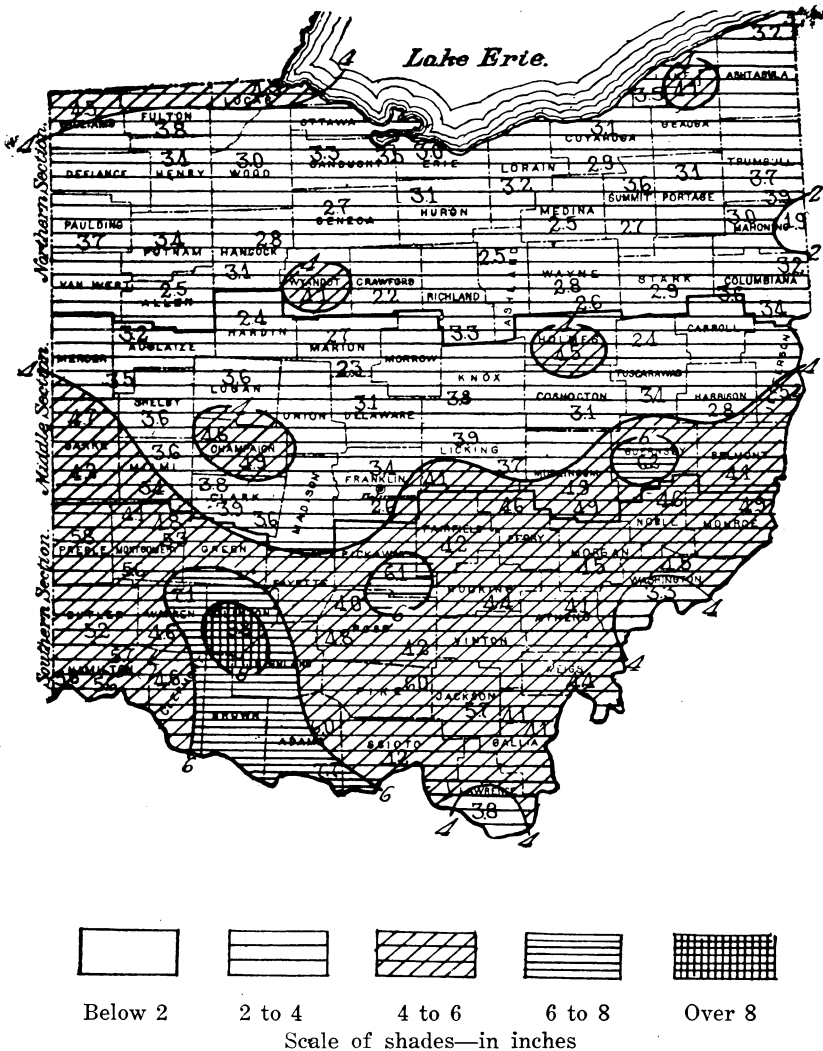
Figure 19. The precipitation averaged 1.80 inches below the normal. It was below normal in practically all parts of the State, but while more moisture was needed badly the rains were well distributed through the month and in most localities vegetation made a good start.

Mean temperature, May, 1915



Figure 20. The mean temperature for the State as a whole was 57.8°. The highest local monthly mean was 65.2° at Ironton and the lowest, 53.2° at Bellefontaine and Wauseon. The highest temperature reported during the month was 89° at Portsmouth on the 14th, and the lowest, 27° at Kenton on the 18th and Medina on the 27th. Freezing temperatures occurred in many of the central and northwestern counties on the 10th. On the 18th frost was general and freezing temperatures occurred in most of the northern and some of the middle and southern counties. On the 27th frost and freezing temperatures occurred in the northeastern part of the State.

Precipitation, May, 1915



Precipitation departures, May, 1915

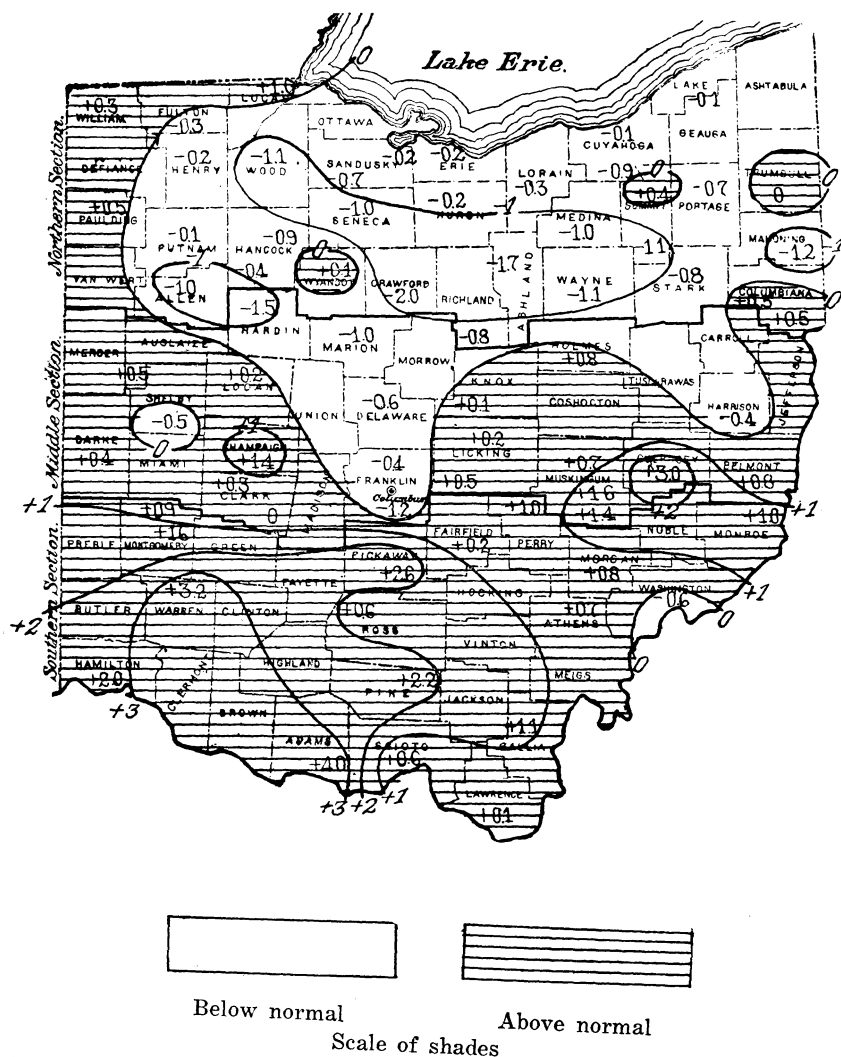


Figure 23. The precipitation averaged 0.18 inch above the normal. It was deficient in most of the northern counties, but considerably above normal in the southern counties.

Mean temperature, June, 1915



Figure 24. The mean temperature for the State as a whole was 66.8°. The highest local monthly mean was 72.5° at Ironton and the lowest, 62.8° at Green Hill. The highest temperature reported during the month was 96° at Summerfield on the 17th and the lowest, 31°, at Green Hill on the 24th. Exceptionally low temperatures were recorded on the 8th, 9th, 10th, 23d and 24th, the 24th being one of the coolest June days on record in Ohio. Frost was reported in Wyandot County on the 9th, Logan County on the 10th, and in Highland and many eastern counties on the 24th.

Temperature departures, June, 1915

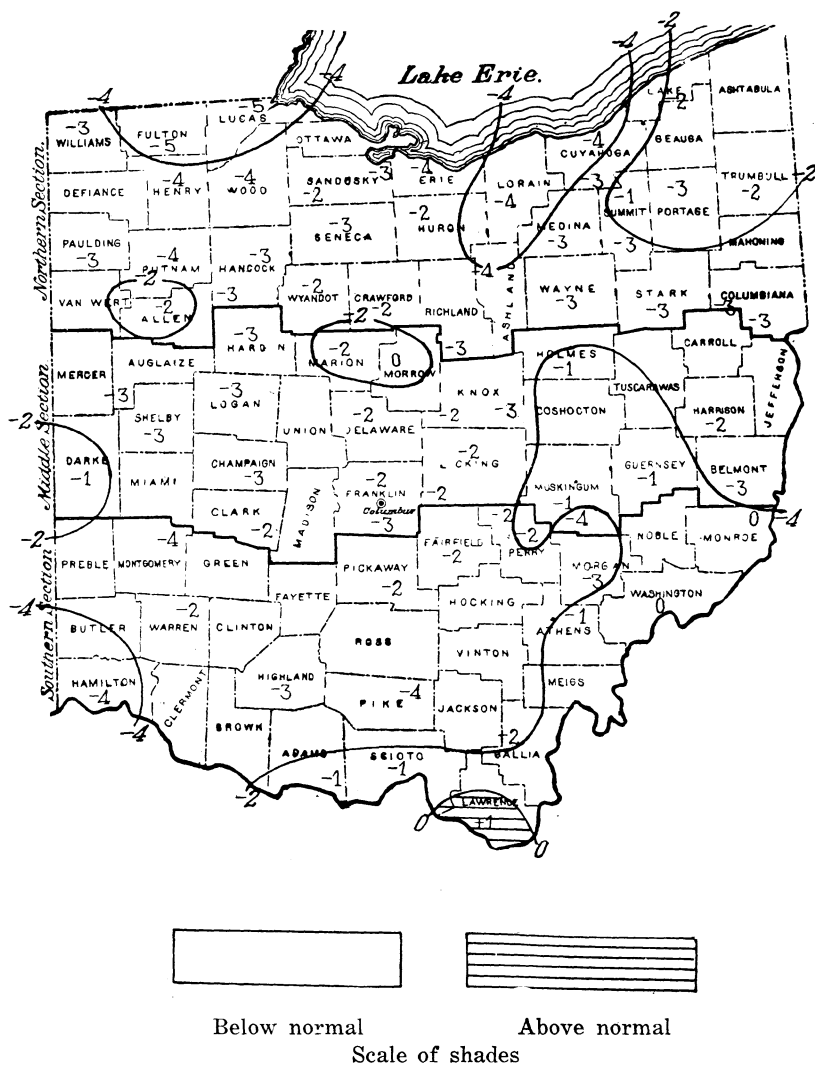


Figure 25. The mean temperature was 2.5° below the normal. Except in some of the more favored southern valleys there was an entire absence of hot days, such as are usually experienced in June, and there were but few days with the temperature even slightly above normal.

Precipitation, June, 1915

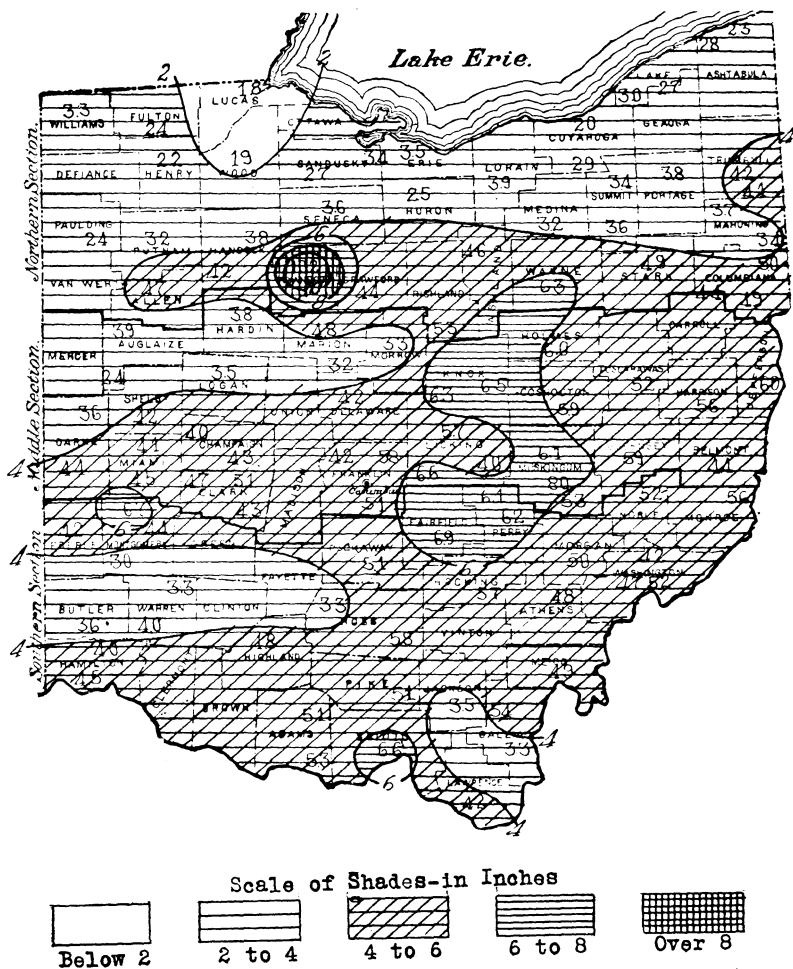


Figure 26. The average precipitation for the State was 4.36 inches. The greatest local monthly amount was 10.25 inches at Upper Sandusky and the least, 1.73 inches at Case School in Cleveland. The rains fell with such frequency during the month that farm work was greatly delayed.

Precipitation departures, June, 1915

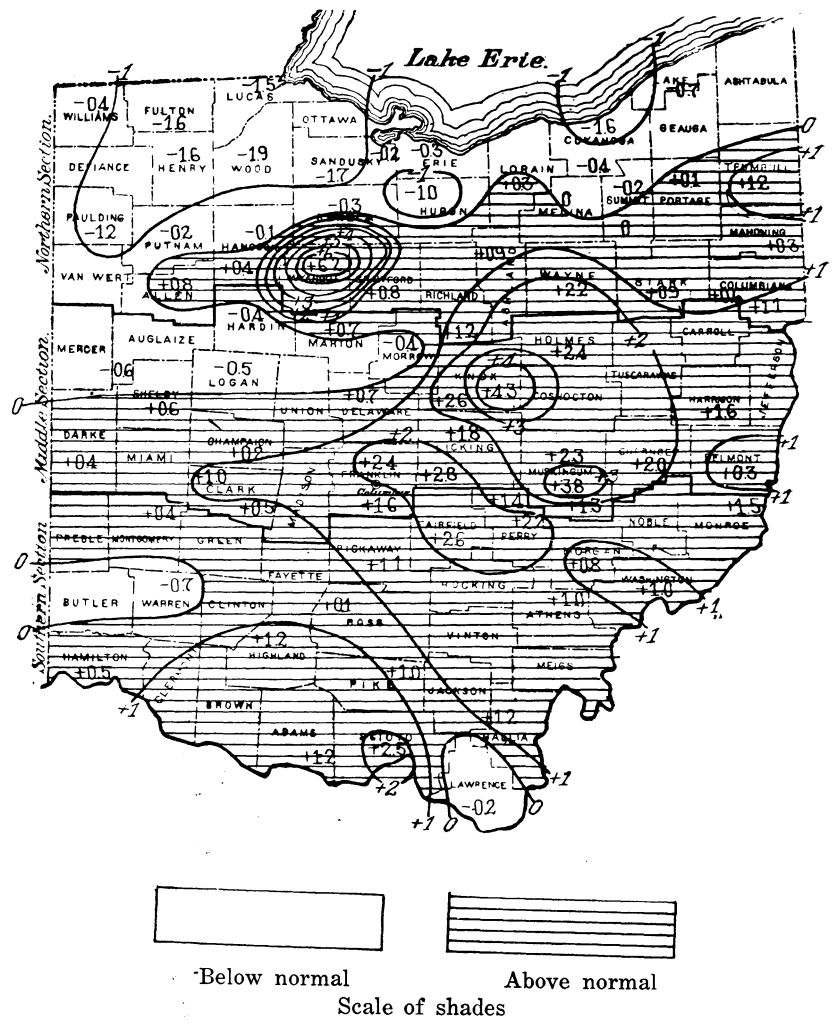


Figure 27. The precipitation averaged 0.68 inch above the normal. It was deficient in the extreme northern part of the State but was considerably above normal in most of the middle and southern counties. In most of the Muskingum valley the total fall for the month was over 5 inches.

Mean temperature, July, 1915



Figure 28. The mean temperature for the State was 71.5°. The highest local monthly mean was 75.6° at Ironton and the lowest, 67.7° at Garrettsville. The highest temperature reported during the month was 99° at Jackson on the 31st, and the lowest, 43° at Garrettsville on the 23d and North Royalton on the 8th. Cool weather prevailed during the most of the month. The temperature was exceptionally uniform and the daily ranges in temperature were usually small.

Temperature departures, July, 1915

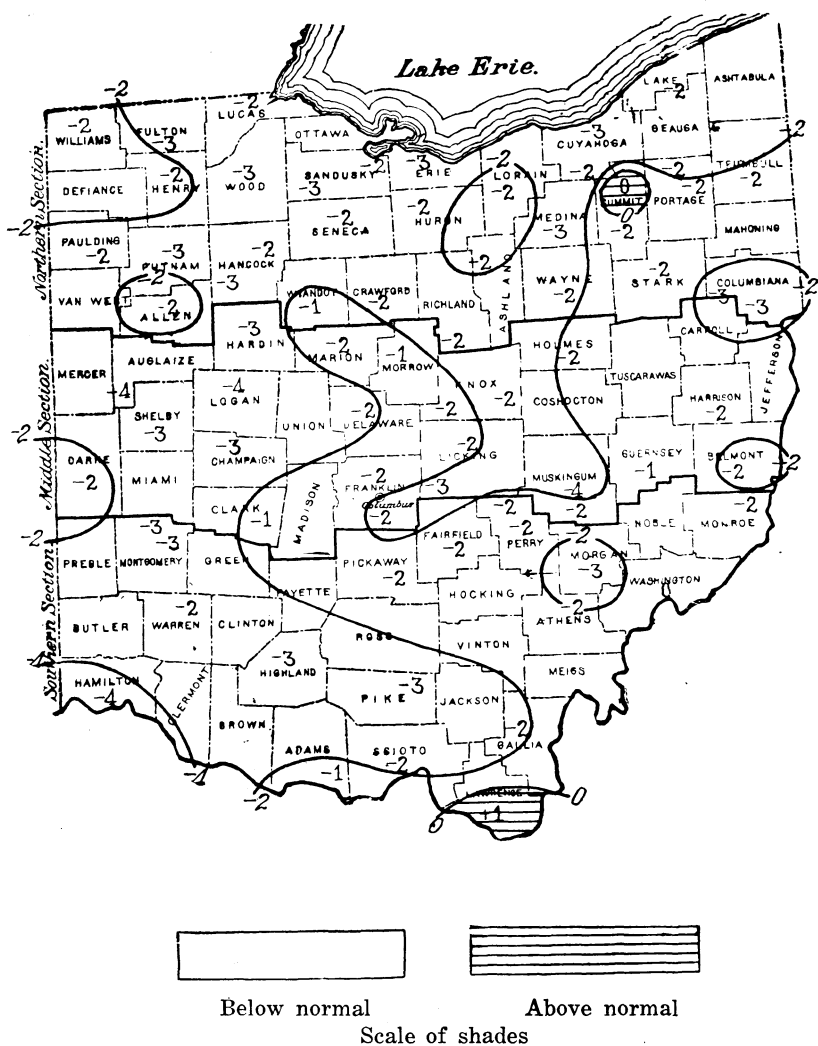
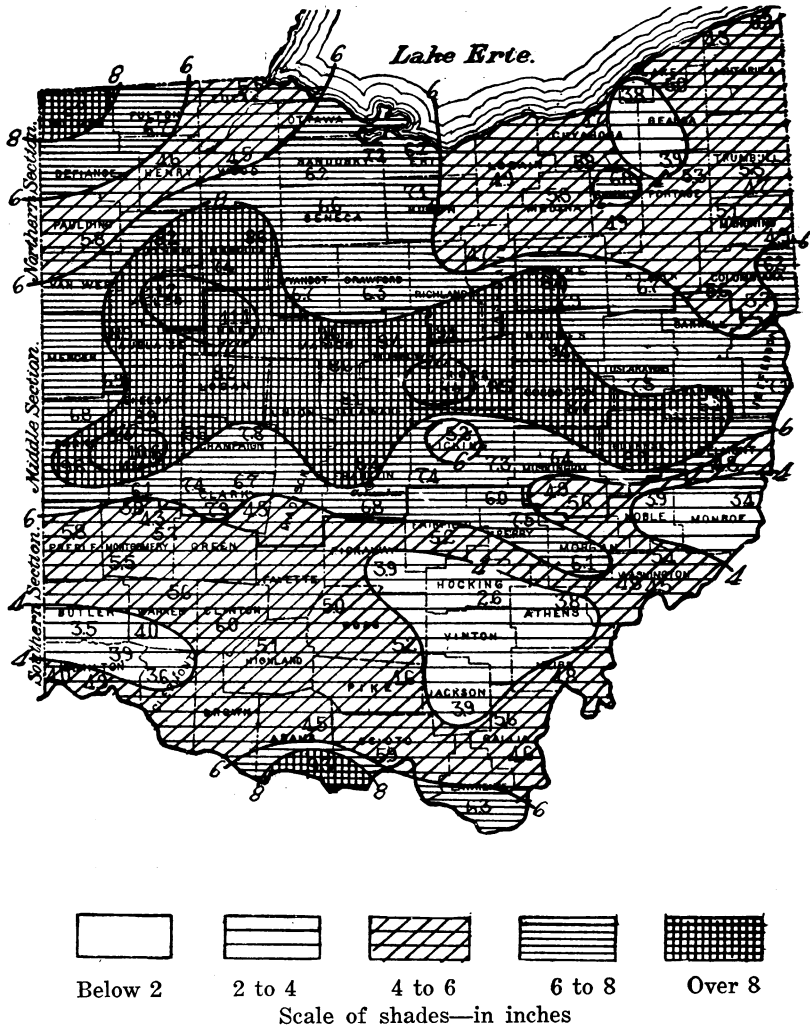


Figure 29. The mean temperature for the State was 2.1° below the normal. With but few exceptions this was the coolest July in Ohio during the last 60 years.

Precipitation, July, 1915



Precipitation departures, July, 1915

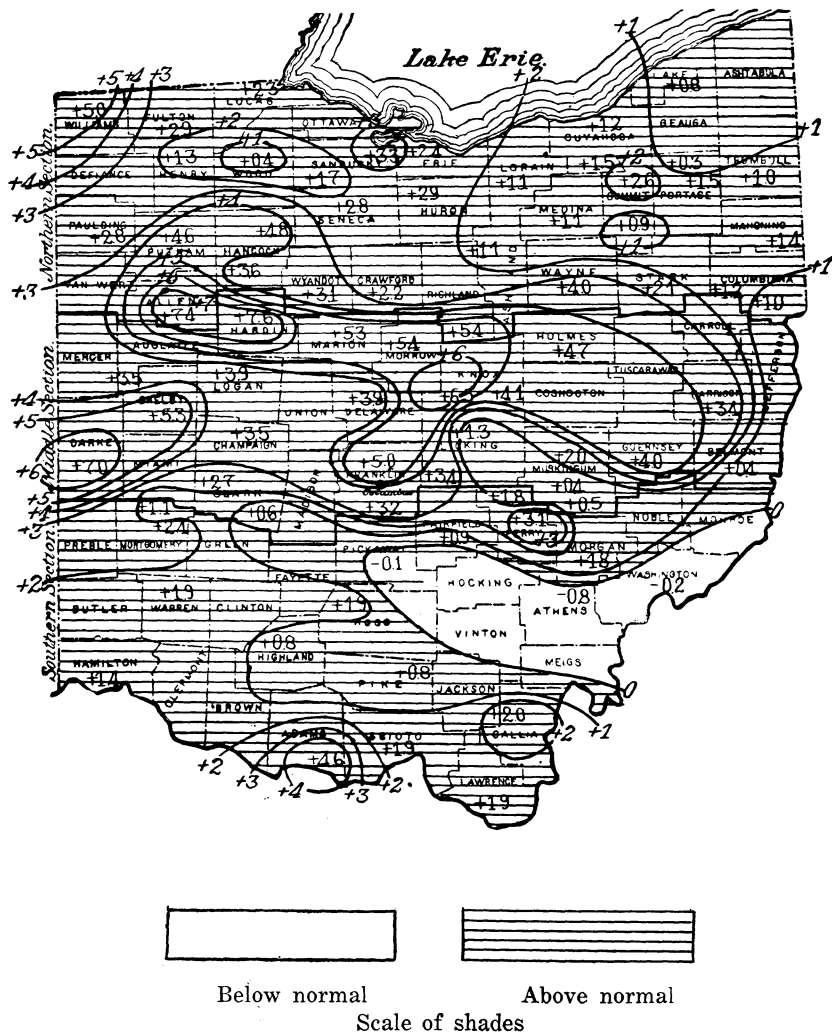


Figure 31. The precipitation averaged 2.52 inches above the normal. With but four exceptions this was the wettest July in Ohio in the last 60 years. The rainfall was above normal in all but a few southeastern counties, while in some of the middle and western counties it was more than twice the usual amount for July.

Mean temperature, August, 1915

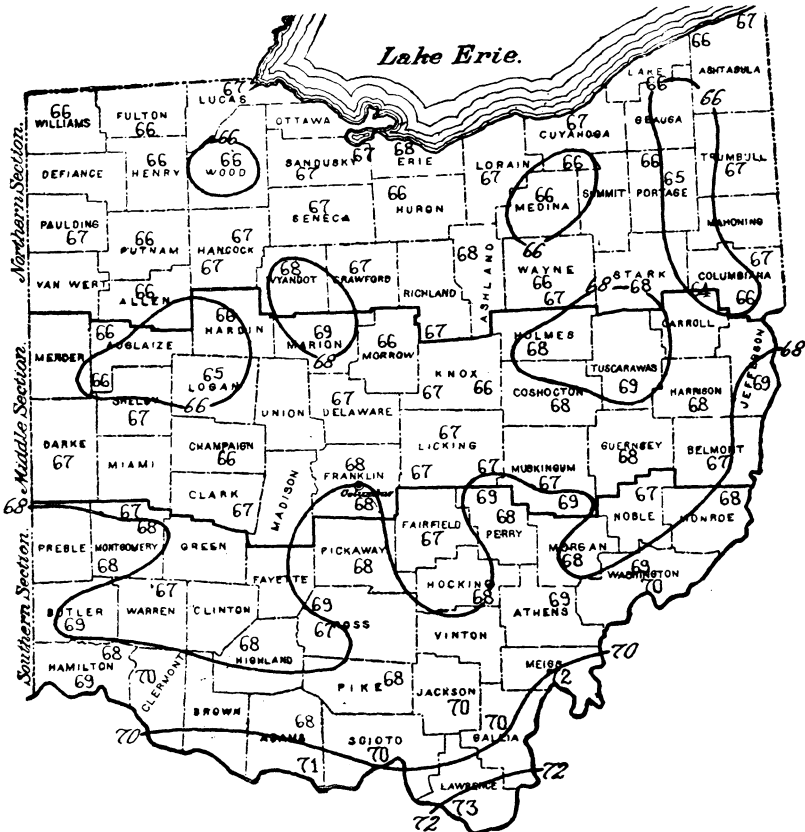


Figure 32. The mean temperature for the State was 67.5° . The highest local monthly mean was 72.6° at Ironton and the lowest, 64.4° at Green Hill. The highest temperature reported during the month was 97° at Circleville on the 1st and the lowest, 34° , at Findlay, Garrettsville, Green Hill, Millport and Paulding on the 31st. The mean temperature for the State was lower than for any other August in the last 60 years, except 1866. The 31st was unseasonably cool, and light frost occurred in exposed places quite generally in northern and middle counties.

Temperature departures, August, 1915

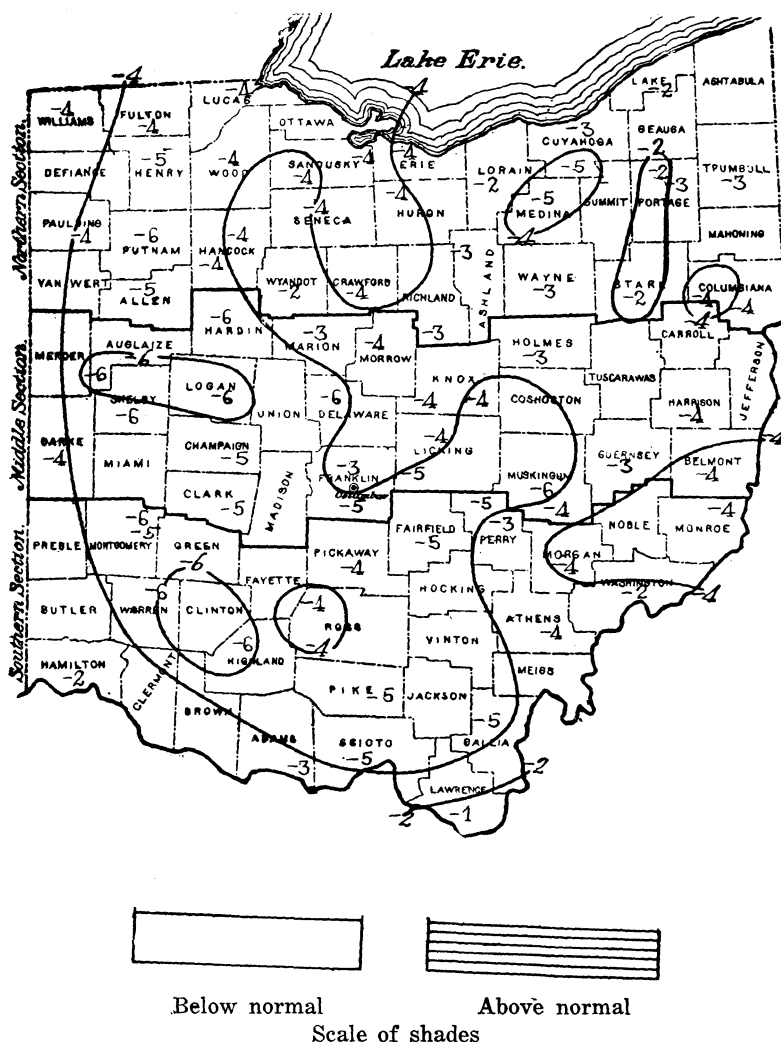


Figure 33. The mean temperature was 4.2° below the normal. Cool weather prevailed almost continuously and the daily temperatures were below normal on all but a few days at the beginning and middle of the month. This was the fourth successive cool month of the season, there being but few warm days that entire period. The mean temperature for the State for the four months was 65.9° , or 3.0° below the normal for that period. Records for the last 60 years show this to have been the coolest summer in that time, with the exception of 1907 when the mean was 65.6° .

Precipitation departures, August, 1915

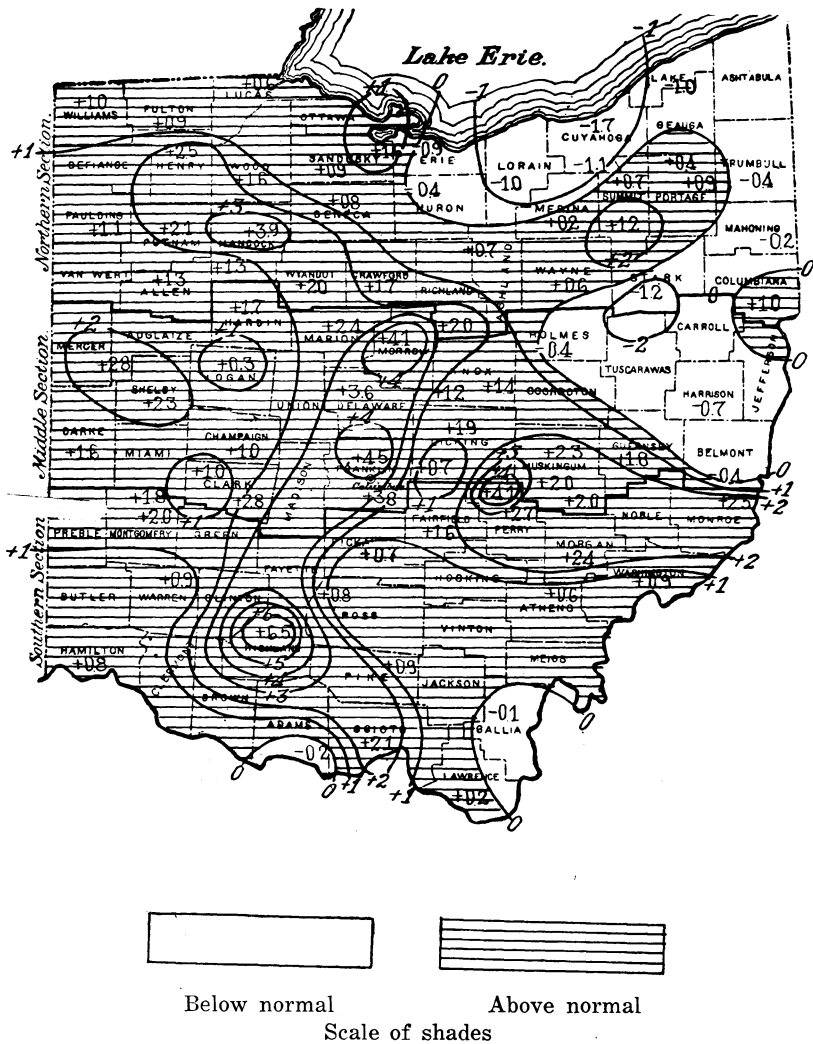


Figure 35. The precipitation averaged 1.23 inches above the normal. It was above normal in all of the middle and western parts of the State, the greatest excess occurring in Highland County and in the Upper Scioto valley.

Temperature departures, September, 1915

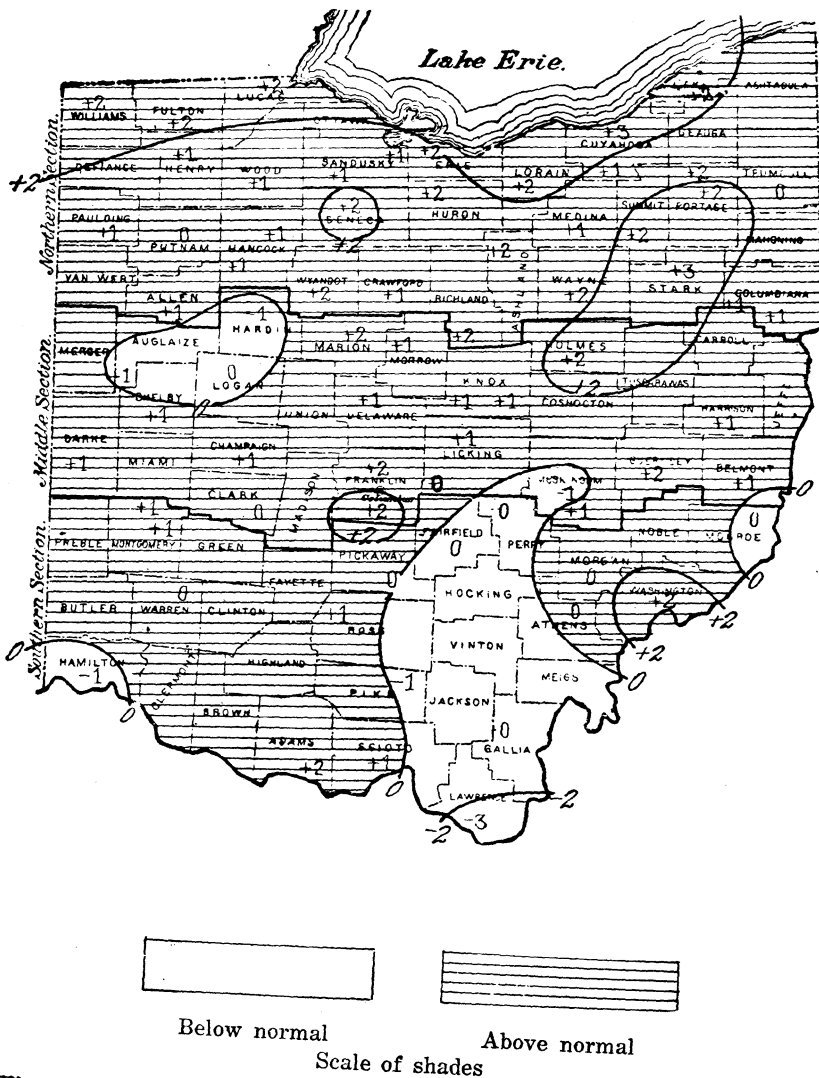
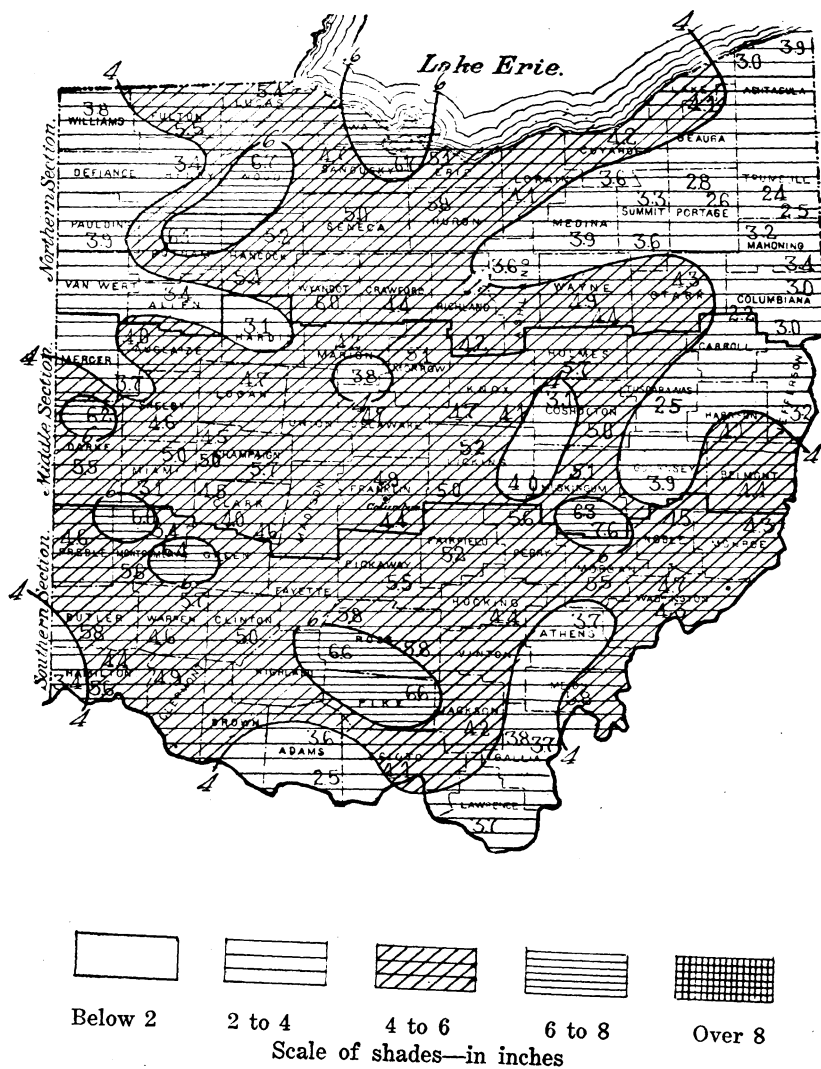


Figure 37. The mean temperature for the State* was 1.0° above the normal. The greatest excess in temperature occurred in the northern counties and the mean temperatures for many of the northern stations were nearly as high as for the southern stations.

Precipitation, September, 1915



Precipitation departures, September, 1915

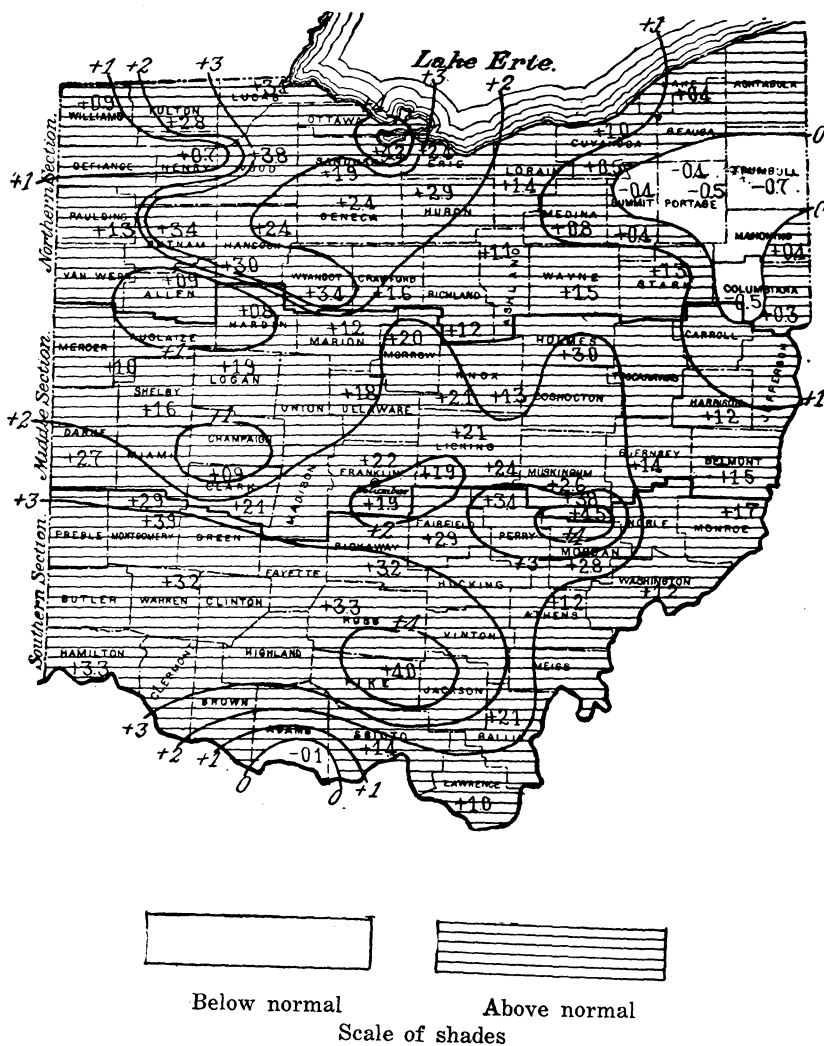


Figure 39. The precipitation averaged 1.85 inches above the normal. Heavy rains during the first week caused the Walhonding and several of the smaller tributaries of the Muskingum to reach flood stage, and an excessive rainfall on the 30th in southeastern Ohio caused high water in some of the small streams in that part of the State.

Mean temperature, October, 1915

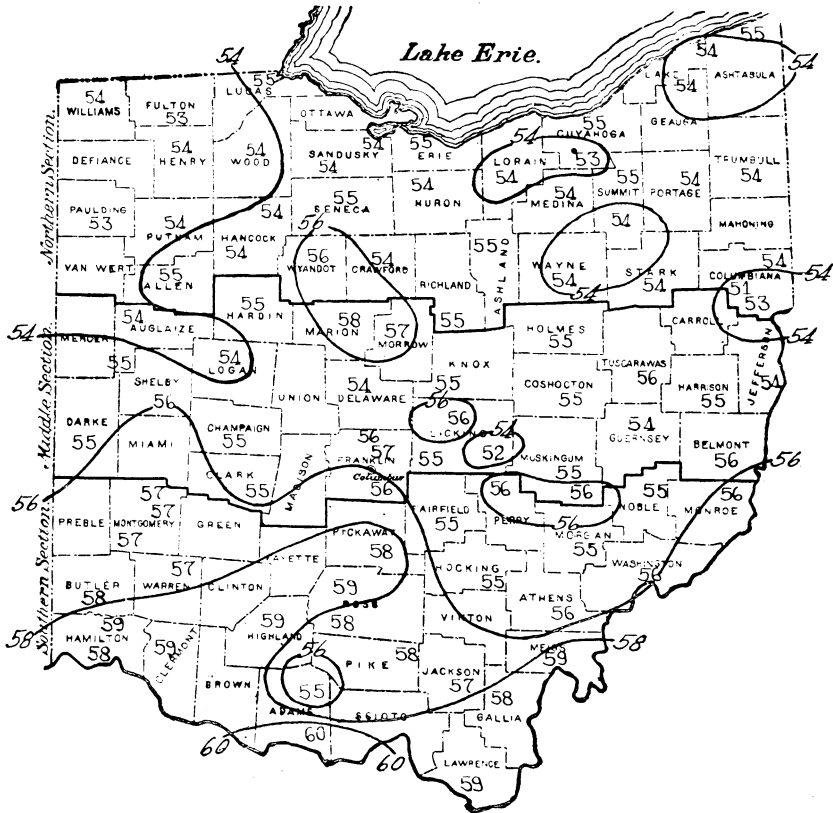


Figure 40. The mean temperature for the State was 55.4°. The highest local monthly mean was 60.3° at Green, and the lowest, 51.4°, at Green Hill. The highest temperature reported during the month was 89° at Waverly on the 13th, and the lowest, 20°, at Millport on the 24th. Light to moderately heavy frosts occurred in many localities on the 6th, 7th and 8th, and on the 10th a killing frost with freezing temperature was general throughout the State.

Temperature departures, October, 1915

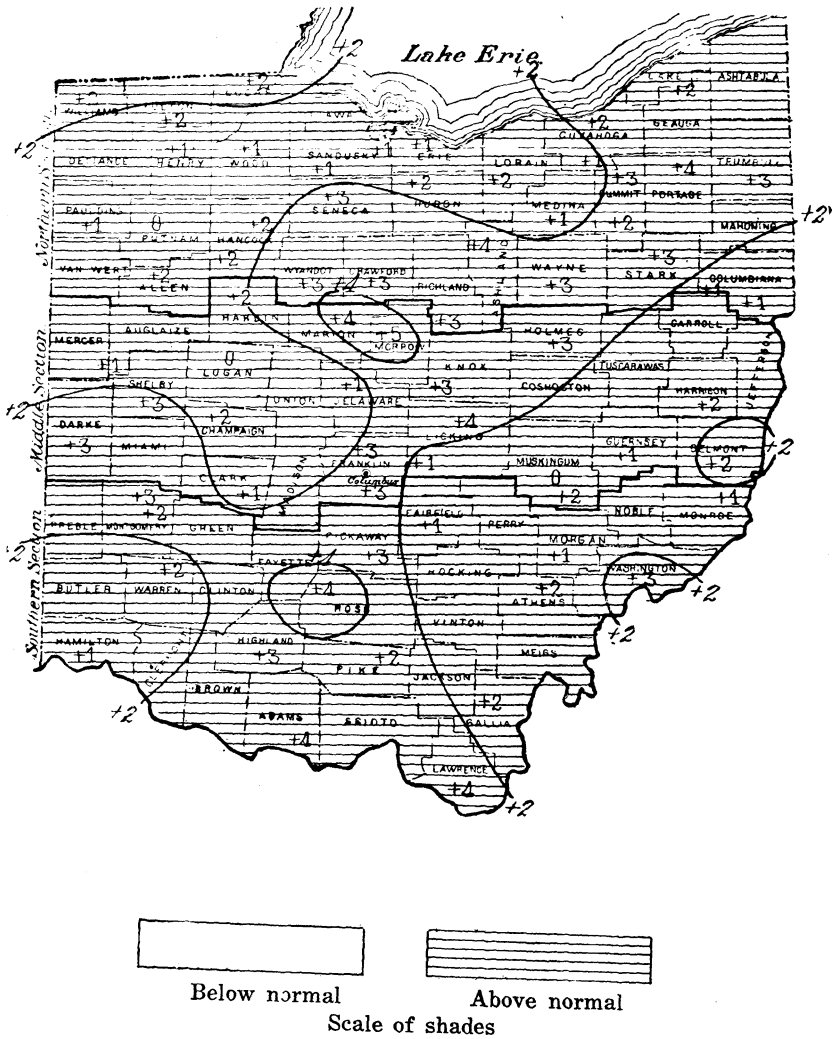


Figure 41. The mean temperature for the State was 2.1° above the normal. With the exception of the 3d and 4th the weather during the first 10 days was cool, but during the remainder of the month, except the 24th, the daily temperatures were considerably above normal.

Precipitation, October, 1915

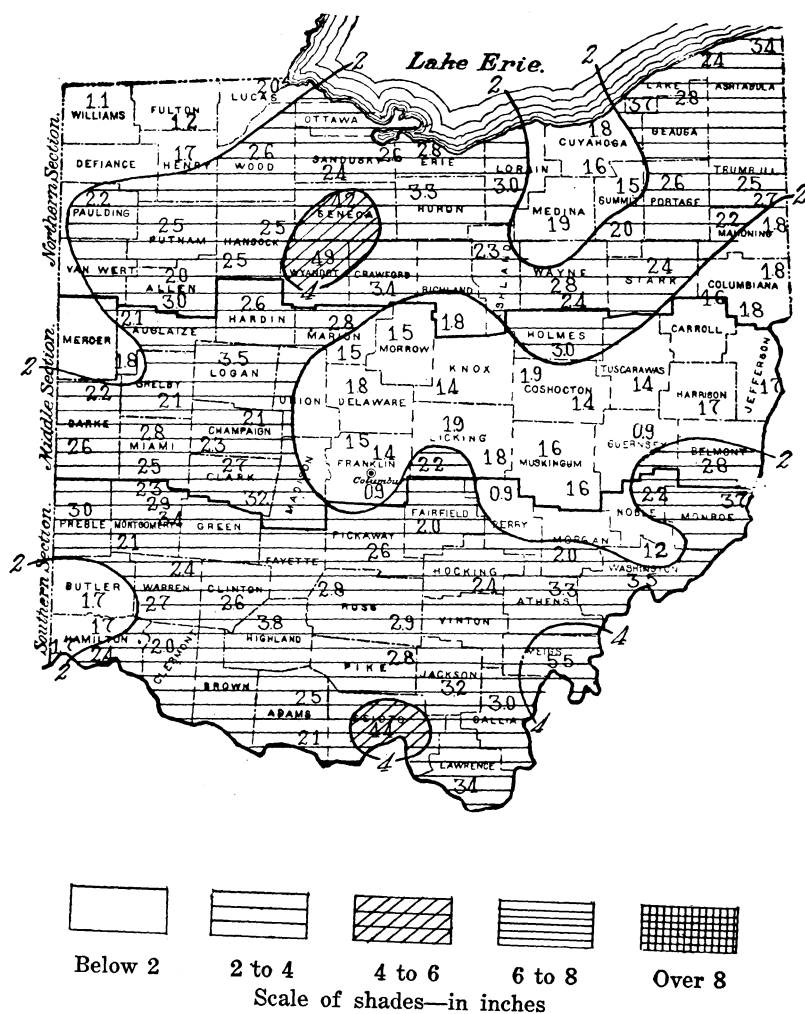


Figure 42. The average precipitation for the State was 2.39 inches. The greatest local monthly amount was 5.54 inches in Meigs County, and the least, 0.86 inch, in Perry County. The most of the precipitation occurred in the first and third weeks. During the last 12 days there was practically no rain and the weather was exceptionally pleasant.

Precipitation departures, October, 1915

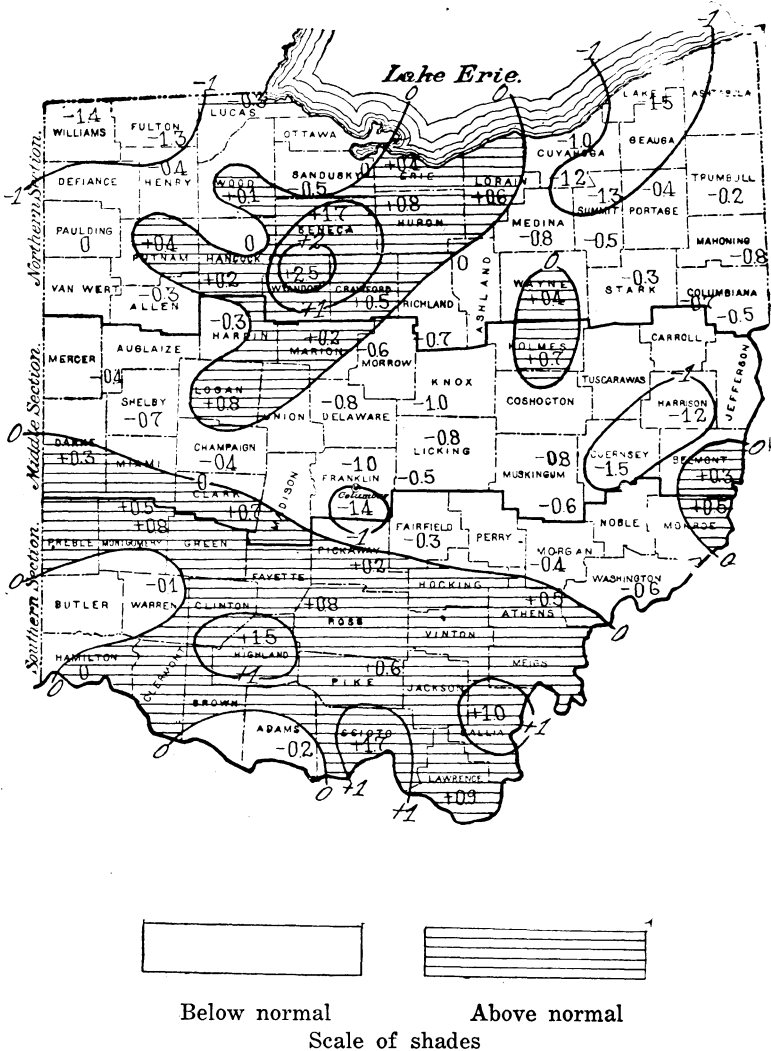
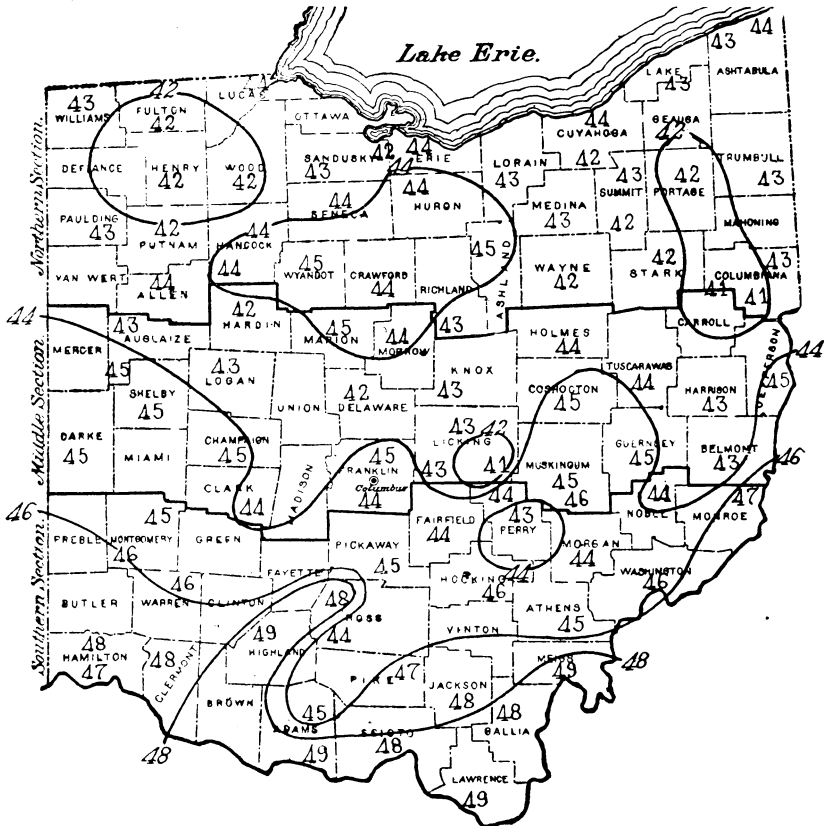


Figure 43. The precipitation averaged 0.16 inch below the normal. The greatest deficiency occurred in the northeastern counties and the greatest excess in the Sandusky and lower Scioto valleys.

Mean temperature, November, 1915



Temperature departures, November, 1915

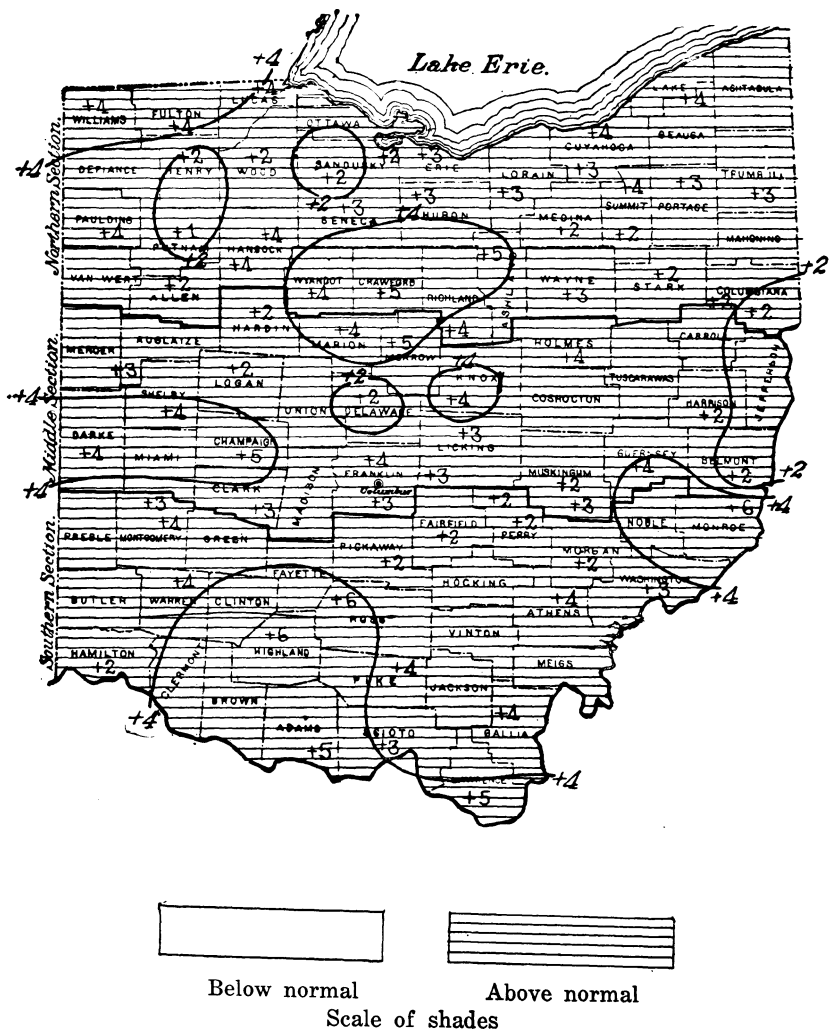


Figure 45. The mean temperature for the State was 3.2° above the normal. The temperature was much below normal on the 15th, 16th, 22nd, 29th and 30th, and much above normal on the 25th and 26th. At most stations the highest temperature of the month was recorded on the 11th and the lowest on the 30th.

Precipitation departures, November, 1915

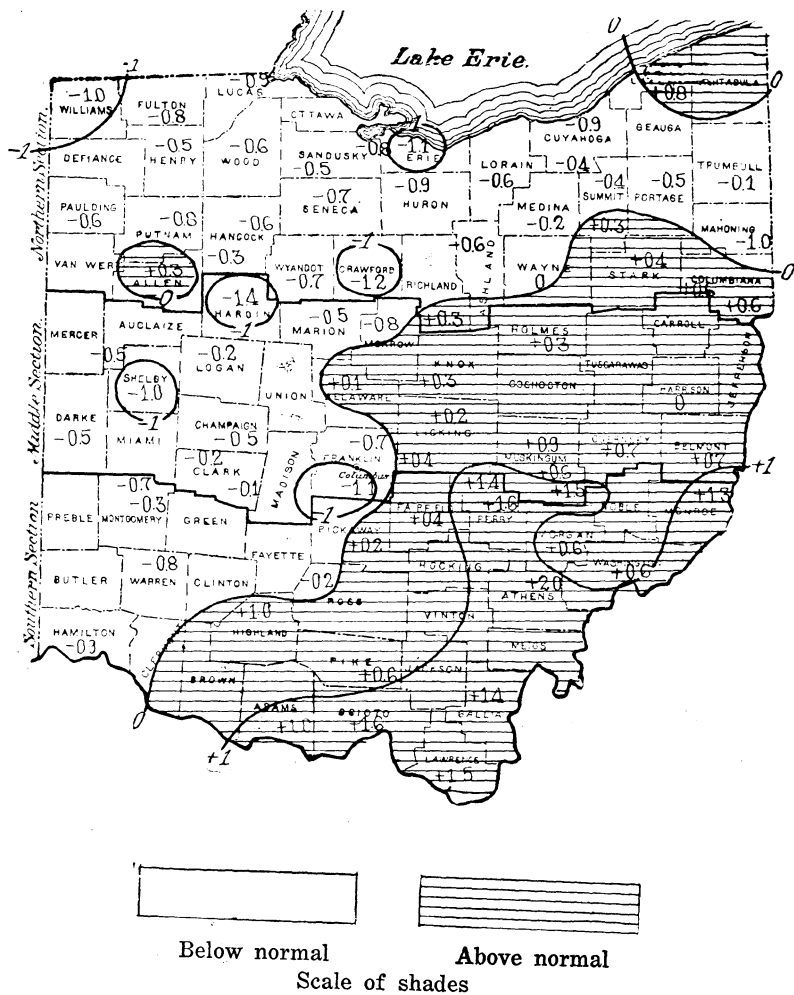


Figure 47. The precipitation averaged 0.07 inch below the normal. There was an excess in the extreme northeastern corner of the State, due to the heavy snowfall on the last day, and a general excess in all of the southeastern counties.

Snowfall, November, 1915



Figure 48. The average snowfall for the State was 1.1 inches. The snowfall was lighter than usual except in a few of the northeastern counties. A 24-hour fall of 13 inches was reported in Lake County on the 30th.

Mean temperature, December, 1915

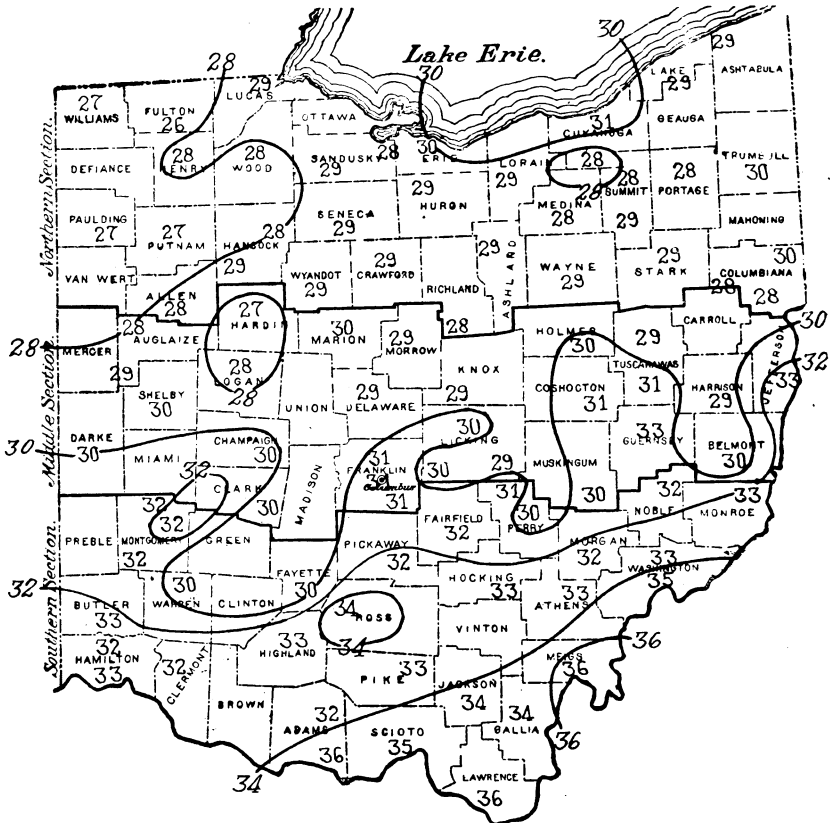


Figure 49. The mean temperature for the State was 30.4°. The highest local monthly mean was 36.4° at Syracuse, and the lowest, 26.4°, at Wauseon. The highest temperature reported during the month was 62° at Ironton on the 17th, and the lowest, 1°, at Vickery on the 29th. There were no extremely warm or cold days during the month.

Temperature departures, December, 1915

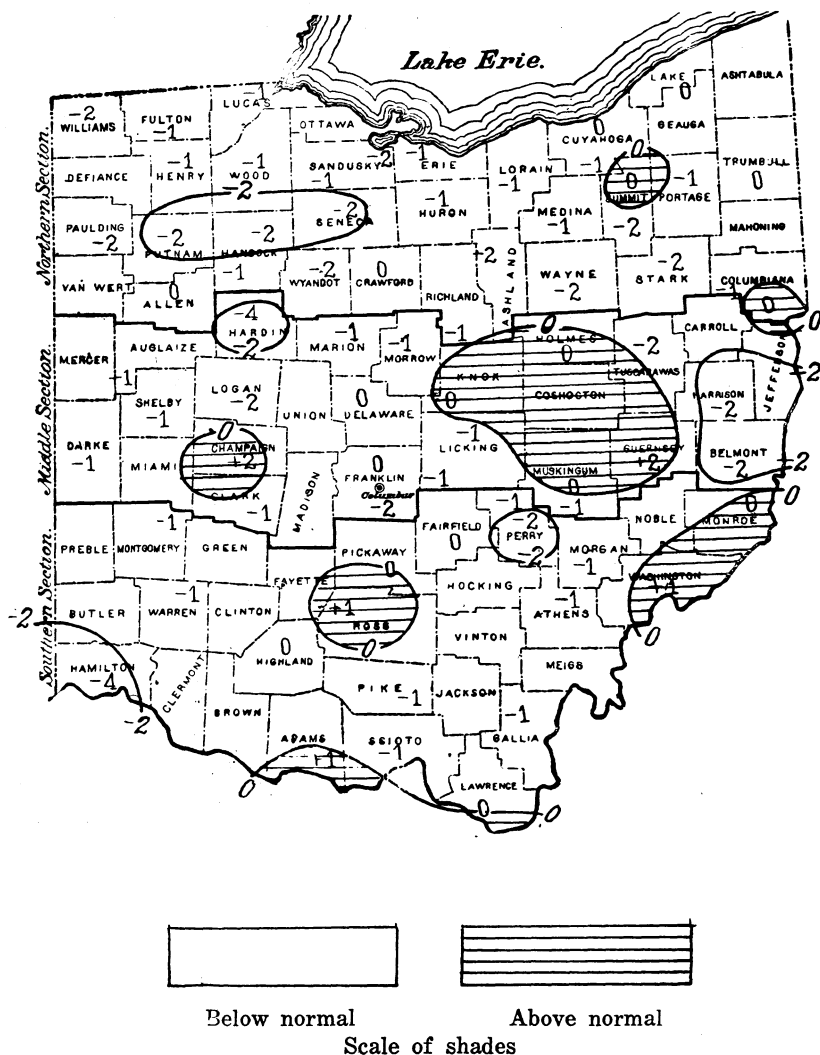


Figure 50. The mean temperature for the State was 0.9° below the normal. The temperature was below normal almost continuously during the first three weeks, but it was above normal during the remainder of the month, except on the 26th and 28th.

Precipitation departures, December, 1915

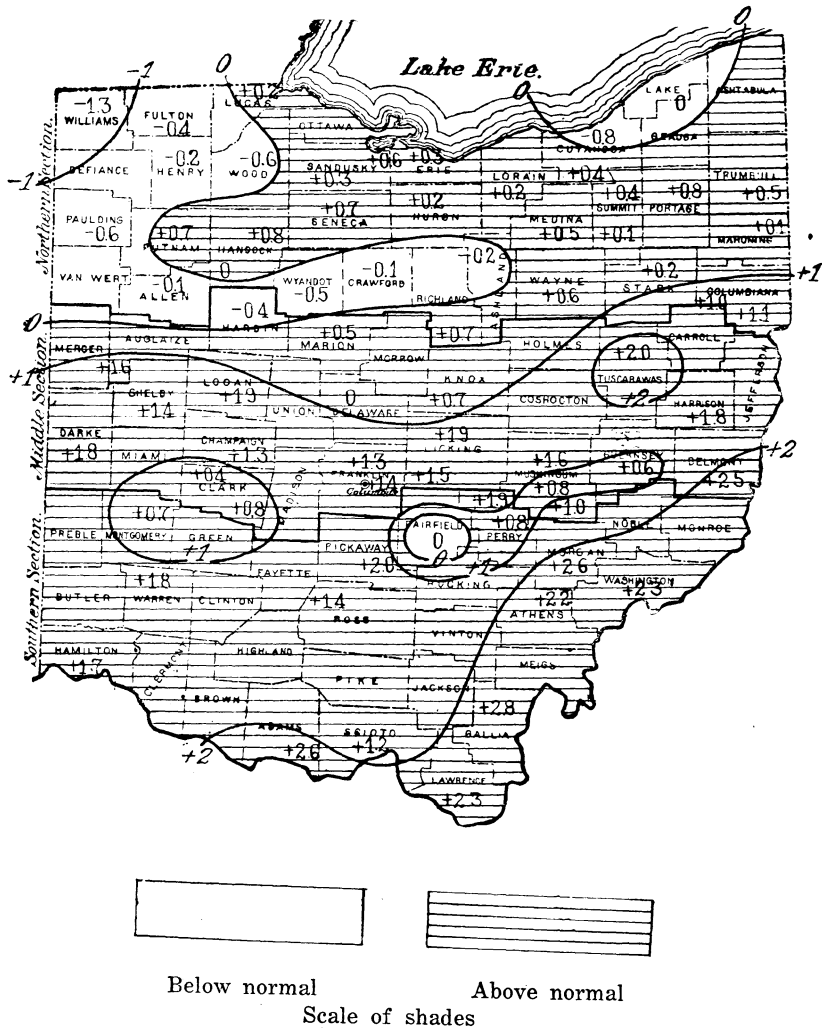


Figure 52. The average precipitation for the State was 0.82 inch above the normal. It was deficient in the extreme northern counties, while in the southeastern counties it was nearly double the usual amount.

Snowfall, December, 1915

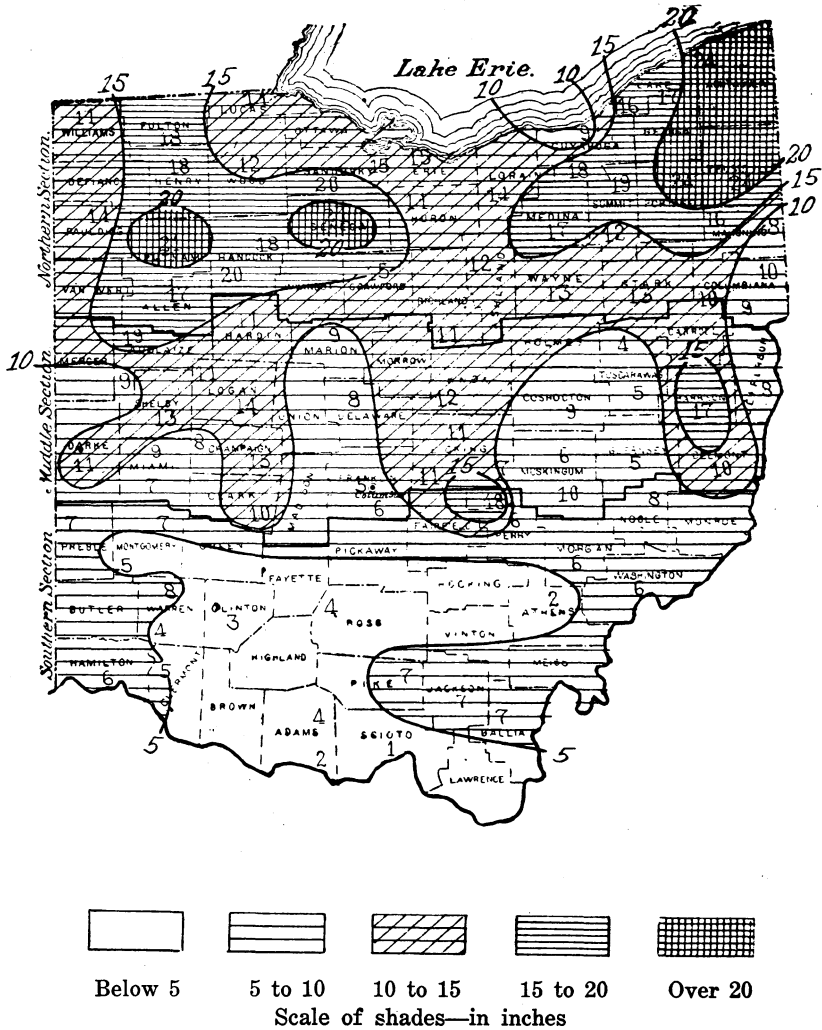
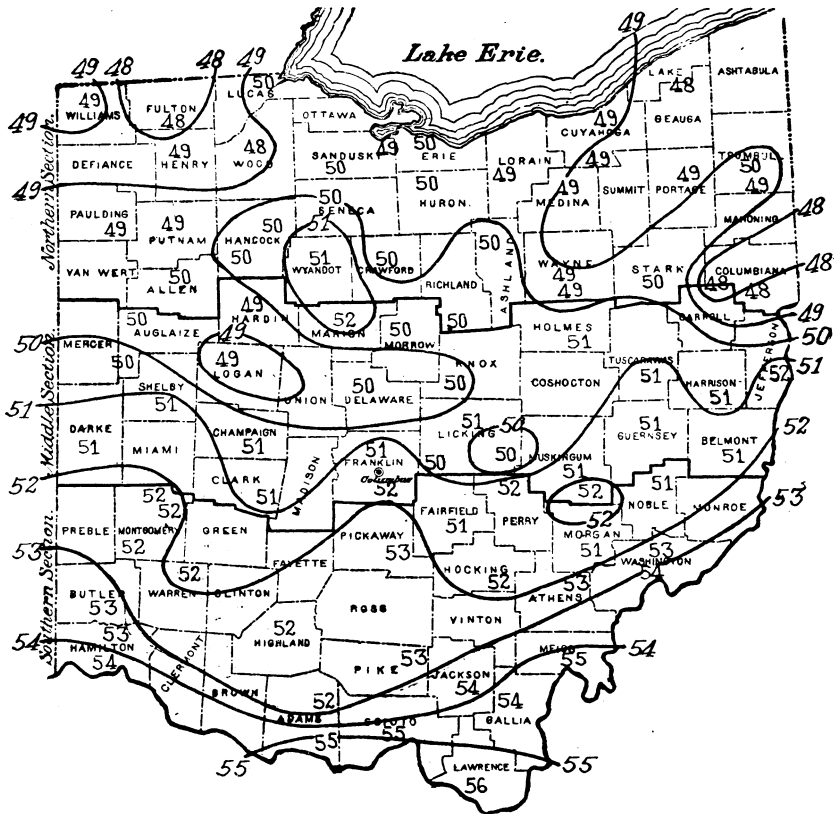


Figure 53. The average snowfall for the State was 11.1 inches. The snowfall was above normal in nearly all parts of the State, and in parts of Ashtabula and Portage counties there was a total fall of 24 inches. A severe snow and sleet storm occurred on the 27th, 28th and 29th.

Mean temperature, year 1915



Temperature departures, year 1915

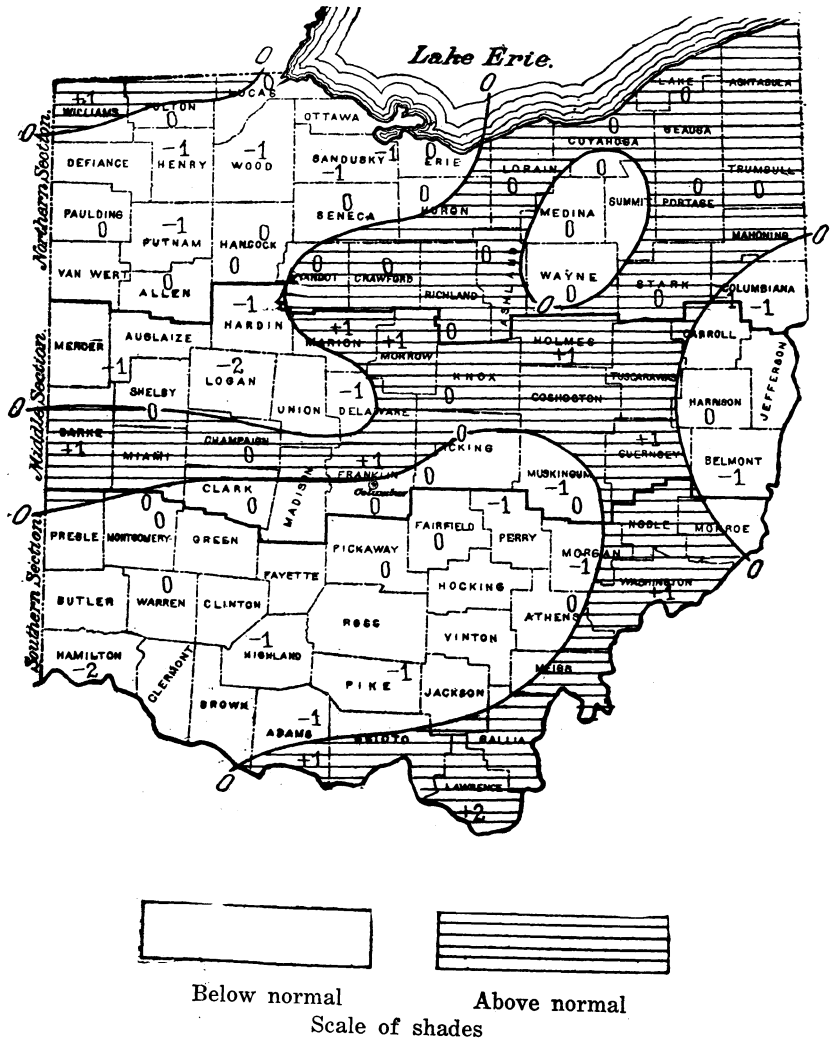


Figure 55. The mean temperature for the year was 0.2° below the normal. The monthly means for February, April, September, October and November were above normal, and for the remaining seven months below normal. Cool weather prevailed almost continuously during the four months of May, June, July and August.

Precipitation departures, year 1915

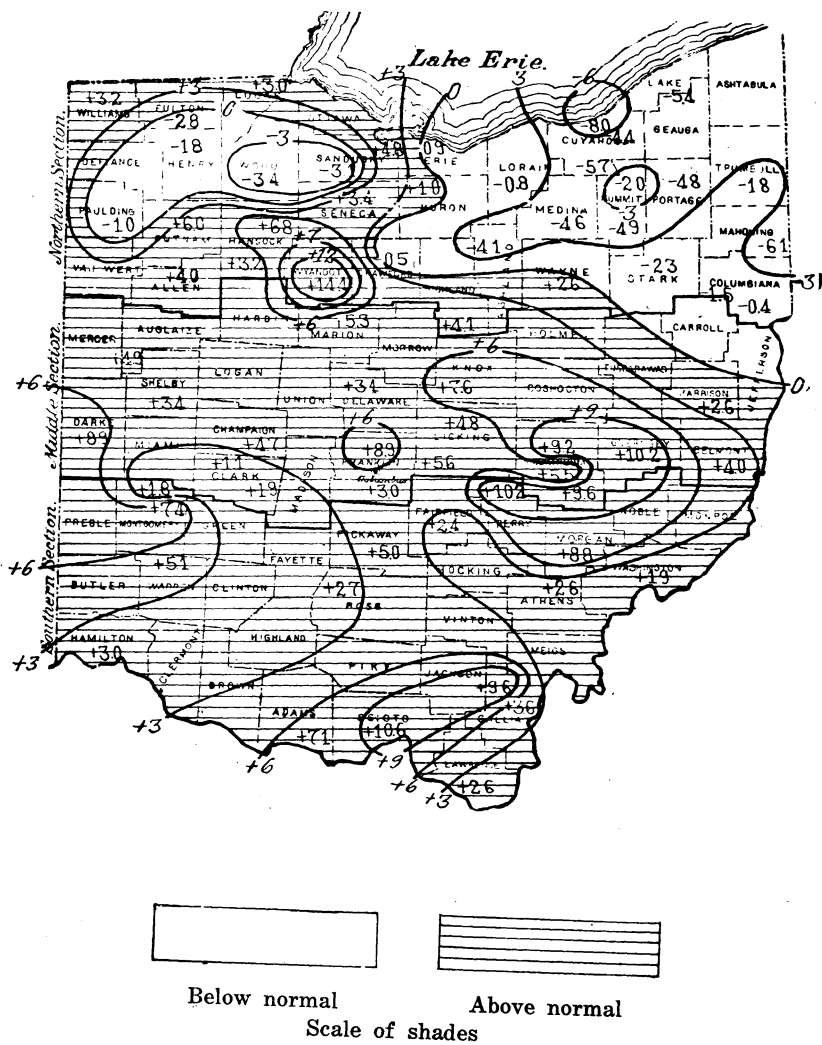


Figure 57. The precipitation for the year averaged 2.73 inches above the normal. It was deficient in the northern part of the State, but in most of the middle and southern counties there was an excess of several inches.

Snowfall, year 1915

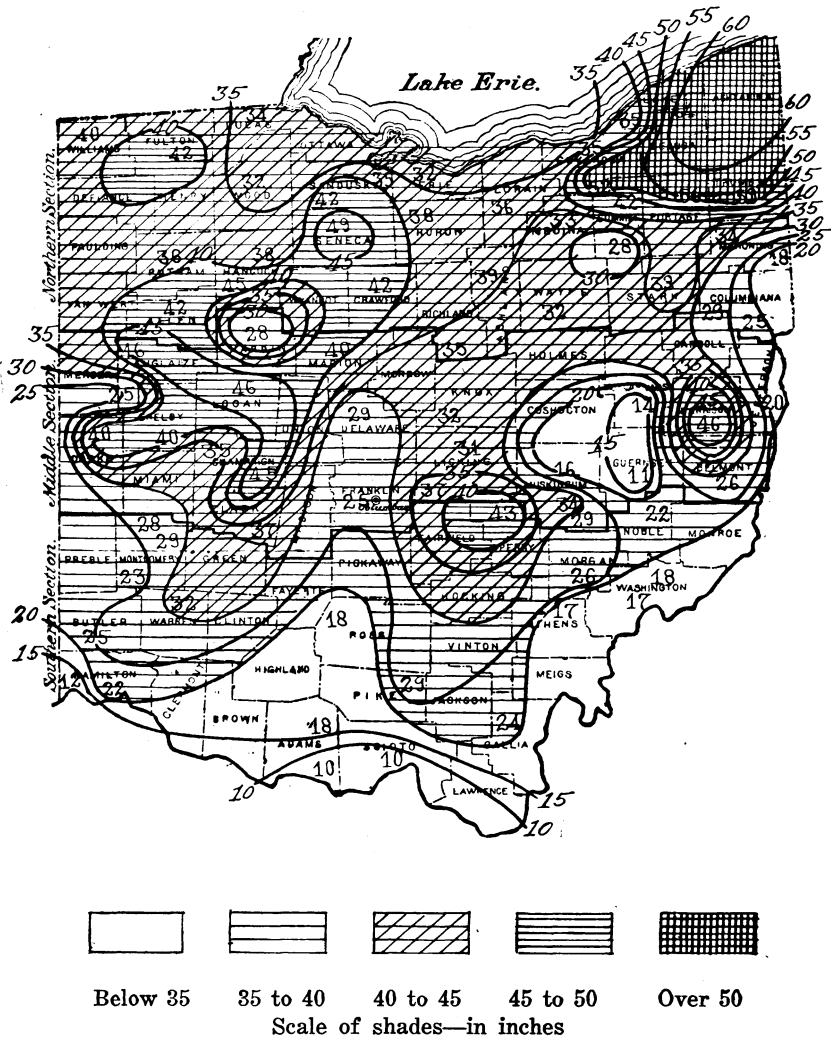


Figure 58. The average annual snowfall for the State was 31.4 inches. The snowfall was above normal in most of the western counties and below the usual amount in the Muskingum valley. The most of the snow fell in January and December.

Dates of last killing frost in spring, 1915



Figure 59. During the spring of 1915 there were no severe frosts after the 18th of April in most of the southern counties; but in the northern counties killing frosts occurred on the 10th, 18th, 19th and 27th of May.

Dates of first killing frost in fall, 1915



Figure 60. Killing frost occurred in a few eastern counties on the 29th of September; but in most localities the staple crops were not injured materially until the 10th of October when freezing temperatures and killing frost occurred generally throughout the State. This was about the average date for most northern and middle counties, but somewhat earlier than usual for southern counties.

CLIMATOLOGICAL DATA FOR OHIO FOR THE YEAR 1915

	Temperature								Number of days				Precipitation		Wind
	Mean	Highest	Date	Lowest	Date	Range	Greatest daily range	Date	Clear	Partly cloudy	Cloudy	Rainfall .01 or more	Monthly precipitation	Monthly snowfall	
January.....	26.3	64	16	-22	24	86	48	31	9	8	14	12	3.40	14.8	S. W.
February.....	35.2	70	22	- 9	9	79	46	20	9	5	14	9	1.96	1.9	S. W.
March.....	33.2	61	25	3	29	58	43	13	13	6	12	7	1.44	2.5	N. W.
April.....	54.8	96	24*	12	1	84	54	8	14	8	8	7	1.42	T	S. W.
May.....	57.8	89	14	27	18*	62	47	11	7	10	14	13	3.99	.....	S. W.
June.....	66.8	96	17	31	24	65	46	28	12	11	7	11	4.36	.....	S. W.
July.....	71.5	99	31	43	8*	56	43	25	10	13	8	14	6.32	.....	S. W.
August..	67.5	97	1	34	31	63	42	31	7	12	12	14	4.52	.....	S. W.
September.....	67.0	96	16	27	29	69	44	1	14	9	7	9	4.51	.....	S. W.
October.....	55.4	89	13	20	24	69	50	31	16	8	7	6	2.39	T	S. W.
November.....	44.3	80	7*	11	30	69	48	3	10	9	11	9	2.68	1.1	S. W.
December.....	30.4	62	17	1	29	61	40	16	4	7	20	12	3.84	11.1	S. W.
Sums and averages.....	50.8	99	July 31	-22	Jan. 24	121	54	April 8	125	106	134	123	40.83	31.4	S.

*On other dates also.

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METEOROLOGICAL SUMMARY FOR 1915

BY C. A. PATTON

EXPLANATION OF TABLES

The following tables contain statistics of temperature, rainfall, etc., for the year, and are compiled from data obtained from daily observations. T stands for "trace"—less than .01 inch of rainfall. Temperature is given in degrees Fahrenheit.

Table I shows the daily rainfall at the Experiment Station at Wooster during the year in inches and hundredths.

Table II shows the daily mean temperature for each day of 1915 and the monthly mean temperature with the 28 years' average.

Table III gives the monthly mean temperature at the Station with the 28 years' average for the same.

Table IV gives the monthly mean rainfall at the Station with the 28 years' average for the same.

Table V gives the monthly mean temperature for the State for 1915 with 28 years' average.

Table VI gives the monthly mean rainfall for 1915 with the 28 years' average for the State.

Table VII gives the monthly mean temperature and rainfall for the Station and State for 1915 with the 28 years' average.

Table VIII contains the mean temperature, the highest and lowest temperatures with the range of temperature for each month; the number of clear, partly cloudy and cloudy days; the rainfall, snowfall and prevailing direction of wind, for both the Station and State for 1915.

Table IX contains the principal points of interest on temperature, rainfall, and state of weather at the Station during the year, and a grand summary for 28 years.

Table X contains the principal points of interest on temperature, rainfall, and state of weather for the State during the year and a grand summary for 33 years.

Table XI gives the highest and lowest temperature for each month during the past 28 years for both the Station and State.

Table XII gives the total and average precipitation at the different district test farms.

NOTES ON THE WEATHER AT WOOSTER, 1915
SUMMARY BY MONTHSLATITUDE 40° 47' 01 " , LONGITUDE 81° 55' 48 "
ELEVATION ABOVE SEA LEVEL 1,030 FEET

JANUARY

The mean temperature was 24.4°. This is below the average for January. The highest, 50°, occurred on the 17th. The lowest, —13°, on the 24th and 30th. The snowfall for the month was 12.5 inches, some snow remaining on the ground the entire month. The total precipitation was 2.32 inches.

FEBRUARY

The mean temperature for February was almost 7° above the average. The highest, 60°, occurred on the 21st and the lowest, 0°, on the 10th. The weather generally was very fine for this month. The snowfall was light. The precipitation was below the average, the total being 2.04 inches.

MARCH

The mean temperature for the month was 31.2° which is 5.8° below the average. The highest, 54°, occurred on the 14th and the lowest, 8°, on the 29th. The weather remained cold throughout the month. The precipitation was very light, being only 1.17 inches. With the exception of March, 1910, this low precipitation record has not been equaled for this month in the past twenty-eight years.

APRIL

The mean temperature for April was 53.2° which is above the average. This mean has only been surpassed once since 1888. In 1896 the mean for April was 54.6°. The highest temperature recorded was 58° on the 25th and the lowest, 21°, on the 3d. Heavy frost and freeze on the 14th and 15th. Many electrical storms during the month but the rainfall was very light.

MAY

The temperature was below the average. The highest recorded was 78° on the 21st and the lowest was 28° on the 27th. A killing frost occurred on this date, freezing ice and killing tender plants and vegetation. The minimum temperature was 28°. The rainfall was below the average—a total fall of 2.80 inches.

JUNE

The mean temperature for June was 64.8° which is below the average for this month. The highest 87° occurred on the 13th. The lowest 37° on the 24th. The weather for the month was

generally cool with cool nights. Light frost reported on low lands on the 24th. The rainfall was very heavy—a total fall for the month of 6.32 inches.

JULY

The mean temperature was 69.2°. This is below the average for July. The highest, 91°, occurred on the 16th. The lowest, 46°, on the 23d. The rainfall was very heavy, the total being 8.35 inches, or 4.06 inches above the 28-year average for July. All previous monthly rainfall records were surpassed, with the exception of the month of March, 1913. Rain fell on eighteen days.

AUGUST

The mean temperature for August was 66° which is 3.3° below the average for this month. The highest, 88°, occurred on the 1st, and the lowest, 36°, on the 31st. The rainfall was slightly above the average, the total being 3.93 inches. Light frost on the 31st.

SEPTEMBER

The mean temperature for September was 65.6° which is above the average for September. The highest, 90°, occurred on the 16th. The lowest, 33°, on the 29th. The rainfall was above the average, the total fall for the month was 4.90 inches. Frost on the 28th, partly killing tender plants and vegetables.

OCTOBER

The mean temperature for October was 53.4°. This is above the average for October. The highest, 80°, occurred on the 4th. The lowest, 23°, on the 10th, with a killing frost and freeze on this date. The weather for the month was fine, and favorable for all outdoor work. The total precipitation was 2.85 inches.

NOVEMBER

The mean temperature was 42.4° which is above the average for this month. The highest, 74°, occurred on the 11th. The lowest, 19°, on the 16th. Weather generally favorable for outdoor work. A storm period with very high winds from the 19th to 21st, inclusive. The precipitation for the month was 2.65 inches.

DECEMBER

The mean temperature for December was 28.6°. The average temperature for the month for the last 28 years is 30.4°. The highest, 52°, occurred on the 17th. The lowest, 10°, on the 4th and 15th; cold weather prevailed throughout the month. Rain and snow storm on 29th, causing damage to wires, etc. The total precipitation was 3.32 inches.

METEOROLOGY—TABLE I—RAINFALL
DAILY RAINFALL AND MELTED SNOW FOR 1915 AT THE EXPERIMENT STATION

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....		.60				.02	.60			.70		.10	1
2.....		.34	T	T		.62	.47	1.26				.10	2
3.....					.05	.03	.18	.42				T	3
4.....					.30		.70	.05	1.17		.02	T	4
5.....		.31	.35	.10	T			T	1.34	1.05		T	5
6.....	.19	.15	.02		T			T	.05		T	.07	6
7.....	.28	T	.05		.30	1.10	.02	T			.02		7
8.....		.05	.02				.75	.15	.07		.02	.02	8
9.....		T		.03				T	.07			.02	9
10.....				.05									10
11.....	.10		.02	.50		.10	1.30	.05	T				11
12.....	.25	.30						.85			.30	T	12
13.....						.60						.20	13
14.....	T	.02						T		.05		T	14
15.....			.05			2.40	.82			.25	.18		15
16.....				.06	.25		.05				T	T	16
17.....					.05		T	.10	.18			.55	17
18.....	.15		.05		T				1.15	.80	T	T	18
19.....			T	T		.20	.02				1.15	.05	19
20.....	.05			.18	.58		.07	.05			.10		20
21.....	.05		T	T	.24		.07	.68			.05		21
22.....	.35		.05	T	.04			.08			T		22
23.....	.20	.19	.02	.15							T	.24	23
24.....		T		T				T			.04	T	24
25.....	.40	.08	.25			T	.25	T				.42	25
26.....				.09	T	.20	1.03		.77	T		.25	26
27.....				.25			T		.10		.50	.10	27
28.....			.25		T		.99				T	.60	28
29.....			.02		.95	.25	.14				.25	.60	29
30.....			.02	T	.04	.80	.13	.24			.02	T	30
31.....	.30		T				.76						31
Total.....	2.32	2.04	1.17	1.41	2.80	6.32	8.35	3.93	4.90	2.85	2.65	3.32	
Average.....	.075	.073	.038	.047	.090	.211	.269	.127	.163	.092	.088	.107	

METEOROLOGY—TABLE II—TEMPERATURE
MEAN TEMPERATURE FOR EACH DAY OF 1915 AT THE EXPERIMENT STATION

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....	21.5	36.5	25.5	31.0	48.0	61.5	68.0	76.0	59.5	57.0	62.0	26.5	1
2.....	25.0	31.0	29.0	34.0	49.5	62.0	68.0	76.5	62.5	56.5	53.0	30.5	2
3.....	13.0	20.0	23.5	29.5	60.0	60.5	68.0	78.0	71.0	58.0	39.0	24.0	3
4.....	25.5	21.5	27.5	37.0	54.0	64.5	62.5	71.0	67.5	67.5	42.0	22.5	4
5.....	29.0	33.0	33.0	49.0	50.0	63.0	67.5	63.5	67.5	59.0	40.5	28.0	5
6.....	42.0	35.0	37.5	56.0	52.5	66.0	61.5	64.5	66.5	51.5	40.5	29.5	6
7.....	40.0	24.5	31.5	50.5	56.5	71.0	66.5	68.5	69.0	48.0	50.5	28.0	7
8.....	30.0	21.0	26.0	46.0	57.0	60.0	66.0	70.5	76.0	42.5	53.0	32.5	8
9.....	24.5	13.5	30.5	58.5	55.5	56.5	62.5	69.5	71.5	39.0	49.5	29.0	9
10.....	28.0	18.0	35.0	62.5	48.5	56.5	68.5	67.5	71.0	38.0	38.5	24.0	10
11.....	33.0	39.0	32.0	53.5	55.0	68.5	72.5	67.0	72.5	52.5	59.0	20.5	11
12.....	32.0	42.5	27.0	46.0	61.5	68.0	73.5	71.5	74.5	53.5	54.0	27.5	12
13.....	29.0	46.5	30.0	39.0	61.5	75.0	73.0	67.0	78.5	60.5	43.0	27.5	13
14.....	32.0	48.5	38.0	39.5	53.5	68.5	70.5	70.0	77.0	64.5	36.0	24.0	14
15.....	30.5	43.5	35.5	44.0	54.5	65.5	76.0	72.5	78.0	60.5	36.0	18.0	15
16.....	32.5	34.5	33.0	41.5	57.0	62.0	79.0	73.5	76.0	56.0	29.0	22.5	16
17.....	42.0	33.0	26.5	45.0	52.0	67.0	73.5	70.0	74.5	55.0	36.0	41.0	17
18.....	31.0	29.5	29.0	51.0	43.5	69.0	72.5	58.5	71.0	59.0	39.5	34.0	18
19.....	26.0	35.5	35.0	65.5	46.5	69.5	75.5	58.0	67.0	62.0	41.0	28.0	19
20.....	25.5	41.0	32.0	67.0	52.0	68.5	66.0	62.0	66.5	61.5	33.0	22.0	20
21.....	20.0	41.0	31.0	54.0	67.0	63.5	63.5	66.0	54.5	56.5	34.0	26.5	21
22.....	13.5	47.0	31.5	62.5	64.5	68.0	61.5	64.5	53.0	48.5	29.5	34.5	22
23.....	27.5	47.5	36.5	67.0	55.5	58.5	62.5	66.0	52.5	44.5	33.0	37.5	23
24.....	4.0	45.0	39.5	68.0	61.0	55.0	66.0	66.0	63.0	40.5	38.0	33.5	24
25.....	20.0	32.5	40.0	70.0	57.5	66.0	70.0	58.0	62.5	54.0	46.5	39.0	25
26.....	11.0	24.0	32.5	71.0	59.0	65.0	72.5	56.5	64.5	57.5	55.5	26.0	26
27.....	16.5	23.0	28.0	70.5	46.5	63.0	69.0	59.5	50.0	46.5	49.0	34.5	27
28.....	13.5	22.5	34.5	69.5	58.0	66.0	69.0	64.5	48.5	51.5	41.0	27.5	28
29.....	2.5	.....	21.5	65.5	57.5	66.5	72.0	64.0	48.0	54.0	40.0	28.0	29
30.....	5.5	.....	25.5	53.5	55.0	70.0	76.0	57.5	53.0	48.5	29.5	28.5	30
31.....	30.0	.....	29.0	.....	55.0	.....	73.0	51.5	.....	49.0	.....	32.0	31
Monthly mean.	24.4	33.2	31.2	53.2	55.0	64.8	69.2	66.1	65.6	53.4	42.4	28.6	
28 yr. average.	27.4	26.4	37.0	48.3	58.5	67.4	71.2	69.4	63.9	51.4	40.1	30.4	

METEOROLOGY—TABLE III
MONTHLY MEAN TEMPERATURE FOR TWENTY-EIGHT YEARS AT WOOSTER
Temperature in degrees Fahrenheit

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	23.0	28.8	31.7	46.3	57.7	69.8	70.1	67.8	57.1	44.9	40.7	31.4	47.4	1888
1889.....	31.1	22.9	38.7	47.1	57.8	64.5	70.0	66.0	60.8	45.3	39.3	40.7	48.6	1889
1890.....	36.0	36.6	30.9	48.4	56.0	69.8	70.5	65.8	59.6	50.0	41.3	28.8	49.5	1890
1891.....	30.0	34.0	32.0	49.0	52.0	68.0	68.0	71.0	68.0	49.0	38.0	37.0	49.7	1891
1892.....	22.0	33.0	33.0	47.0	57.0	70.0	70.0	69.0	61.0	49.0	38.0	28.0	48.0	1892
1893.....	18.0	28.0	38.8	50.1	57.6	69.3	72.0	67.9	63.2	52.3	37.7	30.9	48.7	1893
1894.....	32.8	26.7	43.5	50.5	57.5	67.9	71.4	69.2	66.1	52.3	36.5	32.9	50.6	1894
1895.....	21.9	17.9	32.4	49.5	59.4	69.9	68.6	70.9	66.5	44.2	40.4	32.8	47.8	1895
1896.....	27.9	29.2	29.8	54.6	64.5	65.6	70.2	68.5	60.6	45.8	44.4	30.6	49.3	1896
1897.....	24.0	30.0	39.3	47.2	53.4	64.3	73.2	67.0	66.7	55.9	40.7	31.8	49.4	1897
1898.....	31.6	27.4	43.3	45.3	58.2	68.7	74.5	71.1	66.2	52.6	38.4	27.9	50.4	1898
1899.....	26.6	21.3	35.0	52.1	60.0	69.4	70.0	71.0	61.6	55.0	43.2	29.0	49.5	1899
1900.....	30.2	25.0	31.8	47.8	61.5	68.5	72.6	74.0	67.1	58.9	40.6	30.7	50.7	1900
1901.....	28.3	20.0	39.1	45.2	57.9	69.1	75.9	71.6	63.3	51.7	36.6	26.1	48.7	1901
1902.....	26.3	21.4	41.2	46.2	61.2	65.6	73.0	66.4	62.7	53.9	47.3	28.7	49.5	1902
1903.....	24.4	29.0	45.7	48.0	62.2	63.0	71.8	68.8	64.4	58.2	36.8	21.7	49.1	1903
1904.....	18.6	20.5	37.6	42.8	59.4	67.0	69.8	66.7	64.2	50.4	39.6	28.1	47.1	1904
1905.....	22.6	19.8	41.2	46.8	59.2	68.0	71.6	70.0	63.8	51.0	38.3	33.1	48.8	1905
1906.....	35.9	25.8	30.2	51.9	59.9	68.8	71.0	74.2	67.7	51.4	40.4	31.2	50.7	1906
1907.....	30.8	24.6	44.9	41.7	52.8	64.6	69.9	68.6	65.0	47.4	38.5	32.1	48.4	1907
1908.....	28.7	26.8	43.1	50.1	62.2	68.1	72.4	69.0	66.4	53.0	41.0	31.7	51.0	1908
1909.....	31.7	33.6	35.9	48.4	57.9	69.3	69.6	70.4	62.2	47.8	48.3	25.2	50.0	1909
1910.....	26.7	23.8	47.2	50.2	54.7	64.3	72.6	70.9	65.3	54.9	34.8	24.4	49.2	1910
1911.....	31.3	33.8	35.0	46.5	63.5	68.9	71.7	70.6	65.2	51.8	36.7	34.7	50.8	1911
1912.....	16.6	20.5	30.3	50.0	61.1	64.6	71.6	67.1	65.6	52.4	41.0	33.1	47.8	1912
1913.....	34.2	25.1	38.5	48.9	58.0	67.4	72.4	71.5	62.5	52.2	42.4	33.7	50.6	1913
1914.....	31.9	20.4	34.5	48.4	59.8	68.4	71.0	71.5	62.2	55.8	40.9	25.9	49.2	1914
1915.....	24.4	33.2	31.2	33.2	55.0	64.8	69.2	66.1	65.6	53.4	42.4	28.6	48.9	1915
Average.....	27.4	26.4	37.0	48.3	58.5	67.4	71.2	69.4	63.9	51.4	40.1	30.4	49.3	

METEOROLOGY—TABLE IV
MONTHLY RAINFALL FOR TWENTY-EIGHT YEARS AT WOOSTER
Rainfall—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888.....	3.34	2.43	3.34	2.48	3.82	2.31	4.54	4.35	1.92	3.18	4.95	1.39	38.05	1888
1889.....	4.33	2.42	2.13	1.58	2.97	4.86	6.73	1.98	4.05	1.36	3.53	3.93	39.87	1889
1890.....	4.71	6.20	4.37	3.10	6.37	6.92	2.67	4.66	5.13	7.45	2.62	1.74	53.94	1890
1891.....	2.91	4.83	3.71	1.66	2.24	7.13	3.24	1.85	0.93	1.33	5.73	2.92	38.48	1891
1892.....	2.67	2.67	3.38	2.44	7.69	7.89	4.73	2.69	3.20	0.37	2.06	2.74	41.53	1892
1893.....	4.01	6.33	1.89	5.66	6.28	2.51	1.38	1.53	1.85	5.15	2.49	1.50	40.58	1893
1894.....	2.19	3.37	2.36	1.74	4.41	2.23	1.38	0.76	4.25	2.53	2.41	3.15	30.78	1894
1895.....	3.97	0.41	1.98	1.69	1.38	4.20	2.19	2.30	3.92	1.15	4.21	3.51	30.91	1895
1896.....	1.73	2.27	3.67	3.34	3.41	3.98	8.05	1.96	5.16	0.71	1.78	3.04	39.10	1896
1897.....	3.42	2.64	2.81	2.75	4.97	2.98	3.89	3.86	0.29	0.89	5.76	2.50	36.76	1897
1898.....	4.10	2.27	6.44	2.56	4.60	2.70	6.79	5.53	2.15	4.28	4.14	2.29	47.85	1898
1899.....	3.29	1.64	3.95	1.28	4.42	1.95	3.73	0.53	5.56	2.21	1.59	2.78	32.93	1899
1900.....	2.78	2.74	2.25	1.70	2.23	3.71	5.65	5.97	2.19	2.10	4.30	0.99	36.61	1900
1901.....	1.58	1.20	3.09	2.46	4.32	4.82	3.32	3.58	5.64	0.79	1.62	3.47	35.89	1901
1902.....	0.63	0.83	2.99	1.55	2.57	5.55	5.26	1.87	3.49	1.52	2.62	4.07	32.95	1902
1903.....	3.54	3.69	3.29	4.55	1.59	3.69	4.61	6.58	2.07	2.63	2.25	1.95	40.44	1903
1904.....	5.27	3.90	6.22	6.59	4.45	1.67	4.93	2.03	2.27	0.87	0.40	2.68	41.28	1904
1905.....	1.83	1.36	2.61	2.51	5.97	7.50	5.14	4.47	5.10	2.32	2.04	2.08	42.93	1905
1906.....	1.93	1.06	3.57	2.27	2.98	3.81	4.93	7.38	5.16	3.55	2.39	3.79	42.82	1906
1907.....	6.92	1.09	5.80	2.69	3.48	3.81	3.96	2.04	3.13	2.34	1.33	3.41	40.00	1907
1908.....	1.96	3.89	5.02	3.64	4.56	2.17	3.44	3.17	0.73	1.22	1.09	3.05	33.94	1908
1909.....	2.95	5.22	3.02	3.92	4.06	6.44	4.05	5.21	1.73	2.16	2.91	2.55	44.22	1909
1910.....	5.29	4.41	0.54	3.22	4.87	2.57	1.12	0.95	2.59	5.24	2.36	2.29	35.45	1910
1911.....	4.13	2.25	3.26	3.71	2.45	3.78	3.36	5.19	6.53	5.45	2.50	4.54	47.15	1911
1912.....	2.30	1.58	3.77	5.58	5.65	2.21	7.46	7.32	4.41	2.18	1.79	2.35	46.70	1912
1913.....	7.86	2.43	11.84	3.66	3.04	0.97	4.07	4.75	3.70	3.17	3.77	1.92	51.18	1913
1914.....	1.64	1.95	2.37	4.33	2.98	6.33	1.23	5.00	2.87	3.33	1.68	3.67	37.38	1914
1915.....	2.32	2.04	1.17	1.41	2.80	6.32	8.35	3.93	4.90	2.85	2.65	3.32	42.06	1915
Average...	3.34	2.75	3.60	3.00	3.95	4.11	4.29	3.62	3.39	2.58	2.75	2.77	40.06	

METEORGLOGY—TABLE V
MONTHLY MEAN TEMPERATURE FOR TWENTY- EIGHT YEARS FOR THE STATE
Temperature in degrees Fahrenheit

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	24.3	30.5	34.2	49.2	58.8	70.4	72.1	70.4	60.3	47.9	42.9	33.3	49.5	1888
1889.....	33.3	25.8	40.2	49.9	60.2	66.7	72.5	69.1	62.9	47.9	41.0	43.8	51.1	1889
1890.....	38.8	39.4	34.5	51.3	59.2	73.3	73.0	68.8	62.1	52.7	42.2	31.2	52.2	1890
1891.....	33.0	36.0	35.0	52.0	58.0	71.0	69.0	70.0	67.0	51.0	40.0	39.0	51.8	1891
1892.....	24.0	35.0	35.0	49.0	59.0	73.0	73.0	71.0	64.0	52.0	38.0	29.0	50.2	1892
1893.....	18.0	29.0	38.0	50.2	58.3	70.6	74.5	70.7	65.2	53.7	39.3	32.7	50.0	1893
1894.....	33.7	28.9	45.1	50.6	60.0	71.3	74.3	71.2	67.8	53.9	37.5	33.9	52.4	1894
1895.....	23.4	19.6	35.5	51.7	61.1	72.0	71.6	73.5	69.0	46.9	41.9	33.9	50.0	1895
1896.....	29.4	30.5	32.4	56.9	67.9	69.5	73.2	71.8	62.7	49.0	45.1	32.9	51.8	1896
1897.....	25.5	32.4	41.5	49.3	56.3	68.1	75.5	69.4	66.9	58.1	42.2	32.8	51.5	1897
1898.....	32.4	30.0	45.0	47.2	61.0	71.9	76.0	73.5	67.8	54.1	38.8	23.8	52.2	1898
1899.....	27.8	21.6	36.9	53.3	63.3	71.5	74.1	73.7	64.1	57.4	43.9	30.2	51.5	1899
1900.....	31.1	26.0	32.9	50.1	62.9	69.8	74.1	76.3	69.3	60.5	41.6	31.6	52.2	1900
1901.....	29.2	21.1	39.5	46.7	59.0	70.9	78.1	73.1	64.8	53.8	37.7	27.9	50.2	1901
1902.....	27.3	23.3	41.9	48.2	62.6	66.9	74.0	68.9	63.6	54.6	48.5	29.4	50.7	1902
1903.....	27.1	29.9	46.7	49.9	63.9	64.4	72.9	70.7	65.6	54.0	37.2	23.4	50.5	1903
1904.....	20.7	22.9	39.7	44.4	60.7	68.4	71.4	68.8	65.5	52.2	40.5	28.0	48.6	1904
1905.....	22.7	20.8	42.7	48.5	60.7	69.2	73.0	71.7	65.3	52.6	39.6	32.9	50.0	1905
1906.....	35.7	27.3	31.3	52.1	61.3	69.8	72.1	74.6	68.9	52.7	41.1	32.3	51.6	1906
1907.....	32.2	26.0	45.9	42.5	54.5	65.6	72.6	69.5	65.5	48.8	39.1	33.0	49.6	1907
1908.....	29.1	27.7	43.4	51.0	62.8	69.2	73.9	71.2	68.0	54.1	41.7	33.1	52.1	1908
1909.....	32.2	34.7	37.3	49.1	58.7	70.1	70.7	71.9	63.2	48.8	48.9	25.4	50.9	1909
1910.....	27.6	25.5	48.2	51.5	56.0	65.9	73.8	71.4	66.3	56.7	36.3	25.5	50.4	1910
1911.....	32.8	34.5	37.4	47.7	66.3	70.9	74.0	72.5	67.5	53.3	37.6	36.3	52.6	1911
1912.....	17.9	22.4	32.9	51.9	62.5	66.6	73.4	69.2	67.4	54.8	42.2	33.8	49.6	1912
1913.....	36.0	26.7	40.1	50.0	60.3	69.8	74.5	73.3	64.1	54.1	44.4	34.5	52.3	1913
1914.....	33.4	22.1	36.0	50.1	62.2	71.1	74.0	72.8	63.4	56.9	42.1	27.0	50.9	1914
1915.....	26.3	35.2	33.2	54.8	57.8	66.8	71.5	67.5	67.0	55.4	44.3	30.4	50.8	1915
Average...	28.7	28.0	38.9	50.0	60.5	69.4	73.3	71.3	65.5	53.1	41.3	31.6	51.0	

METEOROLOGY—TABLE VI
MONTHLY RAINFALL FOR TWENTY-EIGHT YEARS FOR THE STATE
Rainfall—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888.....	3.65	1.74	3.55	1.99	3.77	3.41	4.40	5.16	2.27	3.98	4.25	1.47	39.64	1888
1889.....	3.13	1.35	1.38	1.79	3.71	4.13	4.19	1.50	3.62	1.78	4.02	2.81	33.41	1889
1890.....	4.94	5.25	5.29	3.45	5.52	4.50	1.99	4.66	5.56	4.27	2.53	2.37	50.33	1890
1891.....	2.82	4.91	4.19	2.13	2.20	4.82	3.82	3.07	1.50	1.76	5.00	2.39	38.61	1891
1892.....	2.11	3.03	2.86	3.32	6.32	5.61	3.80	2.99	2.36	0.73	2.32	1.71	37.16	1892
1893.....	2.56	5.13	2.09	6.37	4.97	3.34	2.49	2.17	1.57	4.24	2.09	2.61	39.63	1893
1894.....	2.14	2.79	2.16	2.31	4.00	2.65	1.56	1.67	3.31	2.01	2.17	2.98	29.75	1894
1895.....	4.00	0.69	1.59	2.11	1.80	2.47	2.00	2.96	1.66	1.22	4.11	3.85	28.46	1895
1896.....	1.67	2.21	3.34	2.78	2.67	4.81	8.11	3.38	5.13	1.20	2.63	1.65	39.58	1896
1897.....	1.93	3.64	5.17	3.27	3.93	2.85	4.65	2.72	0.78	0.64	6.62	2.39	38.59	1897
1898.....	5.25	2.32	6.23	2.38	4.10	2.86	3.98	4.50	2.56	3.72	3.17	2.71	43.78	1898
1899.....	3.01	2.11	4.64	1.61	4.32	2.94	4.17	1.82	2.68	2.14	1.72	3.16	34.32	1899
1900.....	2.37	3.46	2.35	1.89	2.40	3.01	4.62	3.68	1.76	1.89	4.15	1.24	32.82	1900
1901.....	1.70	1.24	2.66	3.40	3.96	4.44	2.72	3.33	2.86	0.73	1.53	3.79	32.36	1901
1902.....	1.42	0.88	2.76	2.21	3.09	7.48	4.69	1.67	4.55	2.28	2.60	3.95	37.58	1902
1903.....	2.36	4.95	3.51	4.01	2.82	4.02	3.67	3.20	1.52	2.62	2.10	2.07	36.85	1903
1904.....	3.85	2.69	5.67	3.53	3.79	2.88	4.13	2.74	1.95	1.50	0.37	3.09	36.19	1904
1905.....	1.73	1.58	2.50	3.10	5.63	4.72	3.93	4.46	2.86	3.65	2.63	2.29	39.08	1905
1906.....	1.98	1.16	3.97	1.89	2.17	3.42	5.14	4.77	2.92	3.19	2.59	3.68	36.88	1906
1907.....	6.06	0.85	5.55	2.74	3.47	4.57	5.36	2.48	3.92	2.76	1.93	3.16	42.85	1907
1908.....	1.82	4.10	5.43	3.71	4.72	2.51	4.08	2.59	0.58	1.17	1.06	2.33	34.10	1908
1909.....	3.24	5.39	2.77	4.13	4.72	5.86	3.76	3.56	1.78	2.31	2.52	2.62	42.66	1909
1910.....	4.48	4.05	0.26	3.49	3.80	2.66	3.17	1.58	4.05	4.19	1.89	2.41	36.03	1910
1911.....	3.90	1.95	2.33	4.35	1.69	3.92	2.40	5.39	4.87	4.99	2.91	3.93	42.63	1911
1912.....	2.12	2.08	4.17	4.47	3.12	3.17	5.70	4.08	3.11	2.44	1.10	2.26	37.82	1912
1913.....	7.01	1.94	8.40	3.35	3.53	1.87	5.20	2.52	2.37	3.36	3.52	1.68	44.75	1913
1914.....	2.30	3.04	2.42	4.01	3.11	3.14	2.19	5.08	1.41	3.42	1.53	3.77	35.42	1914
1915.....	3.40	1.96	1.44	1.42	3.99	4.36	6.32	4.52	4.51	2.39	2.68	3.84	40.83	1915
Average...	3.11	2.73	3.52	3.04	3.69	3.80	4.01	3.29	2.79	2.52	2.70	2.72	37.93	

METEOROLOGY—TABLE VII

MEAN TEMPERATURE AND RAINFALL AT THE STATION AND FOR THE STATE, 1915, AND FOR TWENTY-EIGHT YEARS

Temperature in degrees Fahrenheit. Rainfall in inches

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Mean temperature at the Station, 1915.....	24.4	33.2	31.2	53.2	55.0	64.8	69.2	66.1	65.6	53.4	42.4	28.6	48.9
Twenty-eight years' average temperature at the Station....	27.4	26.4	37.0	48.3	58.5	67.4	71.2	69.4	63.9	51.4	40.1	30.4	49.3
Mean temperature for the State, 1915	26.3	35.2	33.2	54.8	57.8	66.8	71.5	67.5	67.0	55.4	44.3	30.4	50.8
Twenty-eight years' average temperature for the State.....	28.7	28.0	38.9	50.0	60.5	69.4	73.3	71.3	65.5	53.1	41.3	31.6	51.0
Rainfall at the Station, 1915.....	2.32	2.04	1.17	1.41	2.80	6.32	8.35	3.93	4.90	2.85	2.65	3.32	42.06
Twenty-eight years' average rainfall at the Station.....	3.34	2.75	3.60	3.00	3.95	4.11	4.29	3.62	3.39	2.58	2.75	2.77	40.06
Rainfall for the State, 1915	3.40	1.96	1.44	1.42	3.99	4.36	6.32	4.52	4.51	2.39	2.68	3.84	40.83
Twenty-eight years' average rainfall for the State.....	3.11	2.73	3.52	3.04	3.69	3.80	4.01	3.29	2.79	2.52	2.70	2.72	37.93

METEOROLGY—TABLE VIII
SUMMARY BY MONTHS FOR 1915

AT THE STATION	Temperature											Number of days				Precipitation in inches			Prevailing wind
	Mean	Highest	Date	Lowest	Date	Range	Mean daily range	Greatest daily range	Date	Least daily range	Date	Clear	Partly cloudy	Cloudy	Rainfall .01 or more	Monthly rainfall	Average daily rainfall	Monthly snowfall	
January.....	24.4	50	17	-13	*24	63	18.6	40	26	2	12	6	7	18	11	2.32	.075	12.50	S. W.
February.....	33.2	60	21	0	10	60	17.0	38	21	6	*8	10	1	17	9	2.04	.073	2.25	N. W.
March.....	31.2	54	14	8	29	46	17.3	32	14	5	6	9	3	19	13	1.17	.038	3.00	N. W.
April.....	53.2	88	*25	21	3	67	25.7	42	8	10	1	11	6	13	9	1.41	.047	T	S. W.
May.....	55.0	78	21	28	27	50	24.6	40	11	10	30	11	6	14	10	2.80	.090	.....	N. E.
June.....	64.8	87	13	37	24	50	22.9	36	24	7	3	15	9	6	11	6.32	.211	.....	S. W.
July.....	69.2	91	16	46	23	45	21.4	33	23	12	*3	15	8	8	18	8.35	.269	.....	S. W.
August.....	66.1	88	1	36	31	52	20.6	32	19	9	22	13	10	8	11	3.93	.127	.....	S. W.
September.....	65.6	90	16	33	29	57	22.8	35	23	11	5	19	6	5	9	4.90	.163	.....	S. W.
October.....	53.4	80	4	23	10	57	23.9	41	28	9	*2	17	8	6	5	2.85	.092	.....	S. W.
November.....	42.4	74	11	19	16	55	21.3	31	25	9	22	5	6	19	12	2.65	.088	1.25	S. W.
December.....	28.6	52	17	10	*4	42	13.5	25	4	6	*5	1	2	28	14	3.32	.107	12.75	N. W.
Sums and averages.....	48.9	91	July 16	-13	Jan. 24	†104	20.8	42	April 8	2	Jan. 12	132	72	161	132	42.06	.115	31.75	S. W.
FOR THE STATE																			
January.....	26.3	64	16	-22	24	86	.....	48	31	.....	.....	9	8	14	12	3.40	.110	14.80	S. W.
February.....	35.2	70	22	-9	9	79	.....	46	20	.....	.....	9	5	14	9	1.96	.070	1.90	S. W.
March.....	33.2	61	25	3	29	58	.....	43	13	.....	.....	13	6	12	7	1.44	.046	2.50	N. W.
April.....	54.8	96	*24	12	1	84	.....	54	8	.....	.....	14	8	8	7	1.42	.047	T	S. W.
May.....	57.8	89	14	27	*18	62	.....	47	11	.....	.....	7	10	14	13	3.99	.129	.....	S. W.
June.....	66.8	96	17	31	24	65	.....	46	28	.....	.....	12	11	7	11	4.36	.145	.....	S. W.
July.....	71.5	99	31	43	*8	56	.....	43	25	.....	.....	10	13	8	14	6.32	.204	.....	S. W.
August.....	67.5	97	1	34	31	63	.....	42	31	.....	.....	7	12	12	14	4.52	.146	.....	S. W.
September.....	67.0	96	16	27	29	69	.....	44	1	.....	.....	14	9	7	9	4.51	.150	.....	S. W.
October.....	55.4	89	13	20	24	69	.....	50	31	.....	.....	16	8	7	6	2.39	.077	T	S. W.
November.....	44.3	80	*7	11	30	69	.....	48	3	.....	.....	10	9	11	9	2.68	.089	1.10	S. W.
December.....	30.4	62	17	1	29	61	.....	40	16	.....	.....	4	7	20	12	3.84	.124	11.10	S. W.
Sums and averages.....	50.8	99	July 31	-22	Jan. 24	†121	.....	54	April 8	.....	.....	125	106	134	123	40.83	.115	31.40	S. W.

*On other dates also.

†Difference between highest and lowest.

METEOROLOGY—TABLE IX

AT EXPERIMENT STATION	1914	1915	Summary for 28 years*
Mean temperature.....	49.2°	48.9°	49.3°
Highest temperature.....	99° June 24	91° July 16	101° July 4, '11
Lowest temperature.....	-18° Feb. 25	-13° Jan. 24	-24° Jan. 13, '12
Range of temperature.....	113°	104°	125°
Mean daily range of temperature.....	22°	20.8°	21.1°
Greatest daily range of temperature.....	51° Feb. 25	42° April 8	55° Oct. 6, '95
Least daily range of temperature.....	2° Jan. 4	2° Jan. 12	0° *22
Number of clear days.....	155	132	132
Number of partly cloudy days.....	59	72	89
Number of cloudy days.....	151	161	143
Number of days rain fell.....	114	132	129
Total yearly rainfall.....	37.38 inches	42.06 inches	40.06 inches
Greatest monthly rainfall.....	6.33 in. June	8.35 in. July	11.84 Mar. 1913
Least monthly rainfall.....	1.23 in. July	1.17 in. Mar.	.29 Sept. 1897
Prevailing direction of wind.....	S. W.....	S. W.....	S. W.....

*For data for the years 1888 to 1913, inclusive, see Bulletin 277.

METEOROLOGY—TABLE X

FOR THE STATE	1914	1915	Summary for 33 years*
Mean temperature.....	50.9°	50.8°	50.8°
Highest temperature.....	106° July 12	99° July 31	113° July 4, '97
Lowest temperature.....	-24° Feb. 25	-22° Jan. 24	-39° Feb. 10, '99
Range of temperature.....	130°	121°	152°
Greatest daily range of temperature.....	66° Feb. 25	54° April 8	67° Sept. '97
Average number of days rain fell.....	106	123	120
Mean yearly rainfall.....	35.42 inches	40.83 inches	37.93 inches
Mean daily rainfall.....	.097 inch	.111 inch	.104 inch
Prevailing direction of wind.....	S. W.....	S. W.....	S. W.....

*For data for the years 1883 to 1913, inclusive, see Bulletin 277.

METEOROLOGY—TABLE XI
MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR TWENTY-EIGHT YEARS AT WOOSTER

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888.....	54	- 5	54	- 1	67	8	84	19	82	31	89	40	90	43	92	41	82	31	69	27	72	19	57	9
1889.....	54	12	54	- 5	71	16	80	21	90	30	87	38	92	49	90	45	92	37	76	23	65	16	65	18
1890.....	66	5	65	14	60	1	74	23	83	30	88	46	94	45	95	40	88	38	81	30	66	24	48	15
1891.....	51	12	60	3	61	0	83	21	82	28	89	44	89	49	99	53	98	42	88	25	71	10	58	16
1892.....	54	- 20	54	6	65	10	76	28	86	38	90	56	98	48	92	49	88	36	81	25	67	16	61	- 2
1893.....	51	- 9	47	- 2	75	10	83	24	84	36	92	45	95	47	93	37	95	28	85	24	66	15	62	6
1894.....	56	1	64	- 1	75	14	92	24	83	35	93	37	98	41	96	41	93	36	80	28	65	31	57	- 7
1895.....	54	- 6	60	- 6	59	9	80	21	94	27	98	35	92	42	94	42	93	34	73	19	72	18	61	- 2
1896.....	53	- 2	58	- 6	65	4	89	19	86	44	87	39	92	45	93	41	92	34	71	21	69	13	56	1
1897.....	61	- 18	54	0	69	11	79	21	78	31	88	37	96	50	92	42	96	28	86	25	65	12	60	2
1898.....	64	- 1	64	- 9	71	12	77	16	81	32	90	40	96	45	90	46	90	38	86	24	66	13	56	1
1899.....	55	- 6	57	- 21	67	9	86	21	86	30	92	40	94	45	95	39	94	32	92	22	66	22	63	- 2
1900.....	54	- 5	65	- 10	57	- 4	78	20	89	25	90	44	95	44	94	49	89	41	86	30	69	6	55	11
1901.....	53	- 4	40	0	69	- 1	82	22	82	33	91	38	95	50	94	47	86	34	79	26	67	18	64	- 11
1902.....	47	- 2	59	- 9	69	9	83	24	97	29	89	39	93	46	88	40	85	32	77	27	72	24	60	- 5
1903.....	60	- 8	63	- 9	76	21	74	19	89	27	88	41	94	42	92	43	89	32	79	26	71	9	49	- 2
1904.....	57	- 21	57	- 10	74	13	72	12	88	33	88	44	92	46	90	42	89	31	83	19	68	15	63	1
1905.....	59	- 8	43	- 12	79	10	77	23	82	31	89	38	92	50	90	46	87	36	80	23	61	16	52	13
1906.....	72	6	65	- 14	61	- 5	80	21	86	29	92	47	88	46	91	48	90	44	74	22	72	23	58	6
1907.....	67	- 14	50	- 5	82	12	78	15	81	29	89	40	88	40	90	43	88	34	82	22	55	18	56	9
1908.....	51	4	56	- 3	75	21	80	24	89	30	91	36	92	46	95	43	95	28	84	24	68	17	59	7
1909.....	66	- 11	60	- 2	60	12	81	13	84	31	89	42	89	45	89	41	90	30	81	22	72	21	66	- 6
1910.....	45	- 1	48	- 12	84	18	81	23	82	25	90	35	94	44	94	38	91	34	85	24	66	14	49	0
1911.....	56	- 11	62	- 9	67	4	77	16	92	28	94	46	101	43	97	41	87	37	75	22	65	10	61	7
1912.....	44	- 24	55	- 16	68	6	78	23	86	36	88	31	90	51	89	41	93	30	82	26	68	18	58	8
1913.....	57	4	62	- 2	74	1	83	20	86	25	96	32	95	42	96	45	93	28	81	24	73	12	56	7
1914.....	64	0	51	- 18	67	6	87	19	91	29	95	36	95	45	94	49	93	34	82	26	74	13	59	- 11
1915.....	50	- 13	60	0	54	8	88	21	78	28	87	37	91	46	88	36	90	33	80	23	74	19	52	10
Extremes.....	72	- 24	65	- 21	84	- 5	92	12	97	25	98	31	101	40	99	36	98	28	92	19	74	6	66	-

METEOROLOGY—TABLE XI. Concluded
MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR TWENTY-EIGHT YEARS FOR THE STATE

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888.....	68	-15	68	-10	77	- 6	92	19	91	23	102	34	97	42	102	35	92	26	80	22	80	17	62	1
1889.....	61	8	70	-14	82	-10	88	15	96	26	92	38	98	46	100	40	98	28	82	17	77	9	73	10
1890.....	75	1	73	- 5	69	- 4	86	20	92	28	101	39	101	43	103	40	92	33	85	29	76	17	65	3
1891.....	65	3	80	- 2	74	- 5	95	15	93	25	98	40	95	41	101	39	99	36	93	20	76	0	66	9
1892.....	61	-27	74	- 1	80	- 6	90	14	99	28	101	47	103	40	99	45	96	34	89	20	76	8	70	-12
1893.....	63	-24	68	-14	87	- 8	93	20	94	23	102	40	101	42	101	37	100	24	95	15	76	- 2	72	- 5
1894.....	66	-16	76	-15	91	- 3	97	16	98	31	102	29	105	36	104	36	103	27	90	15	79	4	70	-27
1895.....	62	-19	70	-24	86	- 7	90	16	102	19	105	29	106	34	103	31	105	25	84	8	85	5	79	-13
1896.....	70	-14	78	18	73	- 7	103	15	99	36	98	33	102	39	102	35	100	25	85	17	79	7	67	-15
1897.....	71	-27	72	- 9	82	- 5	92	11	91	25	102	31	113	44	101	38	105	25	97	20	76	8	71	- 7
1898.....	71	-18	72	-20	84	- 5	87	10	92	29	99	39	105	38	100	40	102	33	96	20	76	2	67	-18
1899.....	66	-15	67	-39	76	0	94	6	96	28	102	36	105	41	104	39	107	26	94	20	79	18	69	- 7
1900.....	67	-20	80	-20	70	9	87	15	97	20	96	38	103	38	103	40	100	33	93	23	80	0	65	- 2
1901.....	67	-10	60	-20	84	8	91	18	90	26	103	30	109	48	101	42	98	29	88	20	79	10	73	-19
1902.....	63	-11	66	-17	82	4	90	17	98	24	98	33	100	43	97	37	94	24	88	21	87	17	63	-11
1903.....	73	-13	69	-20	85	11	88	10	93	22	95	35	104	42	101	38	98	26	93	15	88	2	57	-11
1904.....	70	-30	75	-18	86	- 1	81	7	95	27	98	37	99	41	97	38	99	23	92	15	75	0	69	-16
1905.....	65	-17	54	-22	85	- 5	89	12	93	26	99	34	100	44	96	41	95	30	89	20	71	10	58	- 2
1906.....	79	-14	72	-23	74	-12	91	18	94	24	100	34	98	43	101	43	98	36	91	18	82	14	68	-15
1907.....	75	-23	66	-19	96	- 2	86	10	89	24	96	36	98	37	96	40	93	29	88	19	71	11	69	- 2
1908.....	59	- 8	66	-22	85	12	91	16	96	25	100	33	102	42	104	37	100	24	90	15	77	5	68	- 2
1909.....	74	-17	70	-17	70	6	90	13	91	24	96	36	97	40	96	35	95	25	86	16	80	15	75	-20
1910.....	62	-24	68	-25	90	12	88	19	88	21	97	33	98	43	100	36	93	34	94	18	78	11	63	-10
1911.....	68	-19	76	- 2	81	- 1	86	8	101	25	101	40	107	41	104	34	97	33	88	20	79	8	79	- 3
1912.....	57	-37	68	-25	80	- 3	89	15	91	31	93	28	101	42	95	40	99	29	93	23	82	3	74	- 5
1913.....	70	3	77	-15	80	- 8	90	18	95	23	105	29	103	40	102	39	102	26	96	18	78	2	65	- 3
1914.....	75	-17	67	-24	78	- 2	91	12	102	26	104	32	106	41	101	41	97	26	91	17	80	5	74	-19
1915.....	64	-22	70	- 9	61	3	96	12	89	27	96	31	99	43	97	34	96	27	89	20	80	11	62	1
Extremes.....	79	-37	80	-39	96	-12	103	6	102	19	105	28	113	34	104	31	107	23	97	8	88	0	79	-27

TABLE XII: MONTHLY RAINFALL AT DISTRICT TEST-FARMS

Rainfall—inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Strongsville														
1897	.91	1.62	3.29	3.88	5.99	1.88	5.56	3.25	1.13	.87	7.02	1.92	37.32	1897
1898	5.47	3.75	4.82	2.37	3.43	5.60	4.25	5.69	2.72	5.59	3.25	7.39	54.33	1898
1899	4.35	2.32	5.25	3.11	5.58	2.10	5.75	.61	3.14	2.86	1.55	6.36	42.98	1899
1900	3.22	5.53	3.01	2.22	1.85	1.36	4.73	2.49	3.56	2.22	4.91	1.94	37.04	1900
1901	2.73	2.20	4.35	4.76	5.14	3.32	3.15	7.46	5.51	.47	2.51	5.34	48.94	1901
1902	1.17	1.40	2.64	2.91	4.29	9.34	7.39	4.52	5.58	2.73	2.35	3.34	47.66	1902
1903	2.37	2.97	3.18	6.68	1.45	3.78	6.49	8.72	1.88	3.09	2.70	2.62	45.93	1903
1904	6.51	3.59	4.68	3.47	6.07	1.45	5.80	3.48	2.73	1.20	.50	3.87	43.35	1904
1905	2.48	2.73	3.24	3.97	4.38	2.18	5.04	4.11	3.50	2.95	2.92	1.66	39.16	1905
1906	2.03	2.06	.....	1.93	1.01	4.67	2.72	4.30	6.70	.....	4.77	5.12	.....	1906
1907	5.21	1.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1907
1908	.....	.....	.....	.....	2.82	2.78	3.70	3.10	1.00	1.60	1.08	1.90	.....	1908
1909	2.48	2.56	.....	3.49	4.13	3.20	4.40	3.60	2.71	2.60	2.80	1.30	.....	1909
1910	4.80	2.21	1.10	.....	3.05	2.50	1.00	1.37	4.85	3.90	3.98	2.99	.....	1910
1911	.....	1.16	1.85	3.03	1.95	1.80	.80	3.28	5.33	3.85	.....	1.51	.....	1911
1912	1.38	1.49	2.91	5.12	3.62	1.80	6.88	4.74	4.34	2.40	.20	1.89	36.77	1912
1913	4.50	1.45	9.30	2.08	2.15	1.30	2.60	1.70	3.30	3.59	2.61	1.13	35.71	1913
1914	2.00	1.90	2.40	4.95	5.30	3.40	2.00	5.32	.40	.....	.....	.....	.....	1914
1915	1.79	1.45	.....	.....	2.25	3.46	3.86	2.47	3.86	.95	1.41	1.52	.....	1915
Av.	3.14	2.31	3.72	3.60	3.58	3.11	4.23	3.90	3.46	2.55	2.78	3.05	42.65	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT TEST-FARMS—Continued

Rainfall—inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Germantown														
1905	.....	.....	.....	3.45	7.70	3.00	3.80	7.90	3.56	4.10	2.24	2.28	.....	1905
1906	2.92	1.07	6.93	1.88	1.34	2.88	6.24	7.46	2.30	1.65	3.80	4.32	42.79	1906
1907	7.22	.32	6.25	2.26	3.20	3.65	4.10	1.93	5.64	2.92	3.25	3.22	43.96	1907
1908	2.11	6.33	4.24	4.53	4.47	1.42	3.86	1.36	.35	.27	1.70	1.31	31.95	1908
1909	3.41	7.67	2.07	5.58	6.98	5.93	4.50	3.34	.89	3.13	1.95	4.00	49.45	1909
1910	3.00	4.25	.10	1.87	5.08	1.58	3.95	1.11	3.96	7.60	.96	2.85	36.41	1910
1911	5.00	1.46	3.00	6.01	1.36	2.67	1.78	4.56	5.16	4.48	3.06	3.81	42.35	1911
1912	3.23	1.68	4.29	6.51	3.49	2.24	3.78	9.05	2.50	2.79	.72	3.30	43.58	1912
1913	8.40	2.05	7.32	5.25	2.62	2.40	3.49	2.23	2.33	2.56	4.80	.88	44.33	1913
1914	2.62	3.75	3.05	2.47	1.43	2.63	2.51	6.21	.18	2.19	2.03	2.72	31.79	1914
1915	2.95	1.75	1.34	1.54	5.58	3.01	5.38	7.40	5.62	2.12	2.32	3.53	42.54	1915
Av.....	4.09	3.03	3.86	3.76	3.93	2.86	3.94	4.78	2.95	3.07	2.44	2.93	40.91	
Carpenter														
1903	.....	.....	.....	3.75	5.69	5.07	4.23	1.02	1.02	2.60	2.73	3.28	.....	1903
1904	3.74	2.89	5.07	3.03	2.69	3.16	3.79	2.71	2.08	1.10	.18	3.40	33.84	1904
1905	1.02	1.35	4.07	2.70	7.02	5.11	3.77	4.11	1.02	5.20	2.45	3.51	41.33	1905
1906	3.58	1.85	3.82	1.43	1.40	6.39	1.40	2.92	3.24	2.58	3.50	3.50	35.61	1906
1907	8.94	2.28	6.13	3.57	3.47	4.49	4.84	4.10	2.94	2.38	2.14	1.72	47.00	1907
1908	1.37	4.31	7.80	5.15	3.36	2.92	3.74	3.50	.48	.85	1.37	2.13	37.98	1908
1909	3.05	5.72	2.77	4.10	4.29	7.63	4.18	2.18	.86	2.12	.90	2.06	39.85	1909
1910	6.40	4.70	.20	3.23	2.91	2.35	3.40	1.74	.99	1.68	1.42	2.80	31.82	1910
1911	5.56	3.08	2.26	3.90	2.06	6.14	1.19	4.69	5.18	3.68	2.20	4.01	43.95	1911
1912	1.48	2.44	3.39	4.04	2.90	2.92	5.46	2.56	2.51	1.80	.38	2.09	31.97	1912
1913	6.78	1.98	1.71	2.74	4.23	2.29	2.64	2.38	2.07	2.89	2.34	2.36	34.41	1913
1914	1.17	2.05	1.72	2.84	2.33	2.53	1.23	4.88	1.07	2.98	1.08	4.65	28.53	1914
1915	2.91	.95	1.05	1.22	4.95	4.40	3.90	2.76	3.64	1.96	3.35	4.85	35.94	1915
Av.....	3.83	2.80	3.33	3.21	3.64	4.26	3.37	3.04	2.08	2.45	1.85	3.10	36.85	

NOTICE

CHANGE IN FORM OF PUBLICATION

In order to carry the results of the work of the Ohio Experiment Station more promptly and in more practical form to the farmers of the State, and to place the scientific phases of this work in a form more useful to teachers and scientific investigators, it has been decided to issue the publications of the Station in two series; namely:

1. A series of "Technical Bulletins," which will be a continuation of the regular series heretofore issued, but which will hereafter be limited in scope to a technical record of the Station's investigations and will be distributed only to libraries and to such persons as may especially request them. This series will also serve the purpose of the former "Technical Series," of which eight numbers have been published, and which will now be discontinued.

2. A "Monthly Bulletin," which will be published as a monthly journal, each number containing several brief, nontechnical and timely reports of progress on different phases of the Station's work, written for the purpose of illustrating the practical application of this work to the agricultural conditions of Ohio. This Monthly Bulletin, in respect to distribution, will take the place of the Bulletins and Circulars heretofore issued. It will be sent free to the Station's present mailing list without further request, and to any others who may ask for it, but the "Technical Bulletins" will be sent only on special request. These bulletins will be advertised, when issued, in the Monthly Bulletin.

All communications should be addressed to

Ohio Experiment Station,

Wooster, Ohio.